



# FAIRFIELD UNIVERSITY COURSE DESCRIPTIONS

## 2018-2019



FAIRFIELD UNIVERSITY

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## Accounting (AC)

**AC 0011 Introduction to Financial Accounting****3 Credits**

This course introduces students to financial accounting. Students learn to read and comprehend published financial statements and are introduced to the financial reporting process. Topics include financial statement analysis; accrual accounting; revenue and expense recognition; and accounting for assets, liabilities, and equities.

**AC 0012 Introduction to Management Accounting****3 Credits****Prerequisite:** AC 0011.

This course introduces students to managerial accounting and the role of accounting information in managerial decision-making. Topics include a description of basic cost elements; the interrelationship between fixed costs, variable costs, and profit; and methods of accumulating the costs associated with producing products and providing services (e.g., activity-based costing), so that students can make recommendations about performance evaluation, project evaluation and other management decisions.

**AC 0203 Intermediate Accounting I****3 Credits****Prerequisite:** AC 0011.

This course provides an in-depth study of financial accounting theory and concepts, and the presentation of financial statements in conformity with Generally Accepted Accounting Principles (GAAP). The course emphasizes balance sheet valuations and their relationship to income measurement and determination.

**AC 0204 Intermediate Accounting II****3 Credits****Prerequisite:** AC 0203.

This course continues the in-depth study of financial accounting theory and concepts, and the presentation of financial statements in conformity with Generally Accepted Accounting Principles (GAAP) begun in AC 0203. In addition to balance sheet valuation and income measurement issues, the course includes special topics such as earnings per share, accounting for income taxes, leases, and cash flows.

**AC 0265 Accounting Information Systems****3 Credits****Prerequisite:** AC 0012.

This course analyzes the methods used to capture, process, and communicate accounting information in a modern business enterprise. Students learn to document business transaction cycles using data-flow diagrams and flowcharts. They analyze the accounting information system, identify weaknesses, and recommend improvements to internal control. Students process accounting information through a modern database management application program such as a general ledger package or an enterprise resource planning system.

**AC 0310 Advanced Accounting****3 Credits****Prerequisites:** AC 0204; junior or senior standing.

This course focuses on accounting for various financial investments, including financial instruments, derivatives, and business combinations. Students also study the role of financial instruments in hedging foreign currency exposures and the complications encountered in financial reporting in a global environment.

**AC 0320 Cost Management****3 Credits****Prerequisites:** AC 0012, AC 0203, junior or senior standing.

This course focuses on the proactive management of costs and the effect of costs on managers' decision-making, planning, and control. Students learn to accumulate costs and assign them to products and services using several different techniques such as activity-based costing. Other topics include profit planning and resource allocation through the budgeting process; the evaluations of organizational performance in cost, profit, and investment centers; and the importance of cost in the strategic management of the organization.

**AC 0320L Cost Management Lab****1 Credit****Corequisite:** AC 0320.

In this lab, students practice applying cost accounting concepts. Activities include using computer applications (e.g., Excel) to solve and present solutions to cost management problems. Note: This optional lab is not required, but highly recommended.

**AC 0330 Auditing****3 Credits****Prerequisites:** AC 0204; junior or senior standing.

This course introduces the audit of financial statements by independent CPAs. It bridges the gap between knowledge of accounting principles and the professional practice of accounting and auditing in the working world. Students learn about the role of auditing in society and the professional standards for behavioral and technical competence. They also study the factors entering into judgments about audit risk and the fair presentation of financial statement assertions. The course presents programs and procedures for defining audit objectives, gathering evidence, making decisions, and exercising professional skepticism.

**AC 0343 Federal Income Taxation I****3 Credits****Prerequisites:** AC 0204; junior or senior standing.

This course introduces students to income tax, adjusted gross income, deductions from adjusted gross income, itemized deductions, property transactions, filing status and exemptions, passive activity losses, tax credits, and tax computations. The course also includes tax compliance and preparation considerations for individuals.

<b>AC 0344 Individual Taxation: Socioeconomic Applications</b>	<b>3 Credits</b>	<b>AC 0400 Introduction to Accounting</b>	<b>3 Credits</b>
<b>Attributes:</b> UDIV U.S. Diversity		This course examines the basic concepts necessary to understand the information provided by financial and managerial accounting systems. The focus is on interpretation of basic information, as students learn about internal and external financial reporting. Topics include: accrual accounting; revenue and expense recognition; accounting for assets, liabilities, and equities; accumulation and assignment of costs to products and services; and budgeting.	
<b>Prerequisites:</b> AC 0343, junior or senior standing.			
This course builds on the knowledge students obtained from AC 0343 Federal Income Taxation I. In addition to reviewing the fundamentals of individual income tax theory and the associated various forms and schedules, the course will provide students with practical experience in preparing and filing individual tax returns and the procedures used to enforce the individual taxation system. Students will become familiar with using the tax forms, calculating different tax credits and deductions, and conducting research to answer tax questions. The course will also address different social, economic, and ethical perspectives of the taxation system. Students will apply professional tax software, and will be required to obtain the necessary certification and volunteer in a Volunteer Income Tax Assistance (VITA) site as tax preparers.			
<b>AC 0345 Federal Income Taxation II</b>	<b>3 Credits</b>	<b>AC 0500 Accounting Information for Decision-Making</b>	<b>3 Credits</b>
<b>Prerequisites:</b> AC 0343; junior or senior standing.		<b>Prerequisite:</b> AC 0400.	
This course continues the study of taxation begun in AC 0343. The topics include formation of the corporation, distributions, liquidations, and reorganizations. The course covers tax return preparation, tax planning, research, and compliance issues throughout, and also includes personal holding companies, Subchapter S corporations, and partnerships.		This course emphasizes the use of accounting information by managers for decision-making. It is designed to provide managers with the skills necessary to interpret analytical information supplied by the financial and managerial accounting systems. Financial accounting concepts based on profit, liquidity, solvency, and capital structure are used in the process of employing management accounting tools to decisions and evaluate organization performance and changes in cost, profit and investment centers.	
<b>AC 0380 Not-for-Profit Accounting</b>	<b>3 Credits</b>	<b>AC 0510 Issues in a Regulatory Reporting Environment</b>	<b>3 Credits</b>
<b>Prerequisites:</b> AC 0204; junior or senior standing.		This course brings together technical accounting and reporting concepts and theories with a focus on the financial accounting information that is required to be filed with regulatory agencies, the most predominant being the Securities and Exchange Commission. This course aims to provide an in-depth conceptual understanding of regulatory reporting requirements coupled with an appreciation of how these regulations affect the quality of information in publicly available corporate reports. Students will enhance their ability to analyze and understand unique and complex future accounting issues and possible solutions. The course is taught seminar style with students leading the discussions of cases and research.	
<b>AC 0391 Internship</b>	<b>3 Credits</b>	<b>AC 0520 International Accounting</b>	<b>3 Credits</b>
<b>Prerequisites:</b> Junior standing.		The primary focus of this course is the study of International Financial Reporting Standards (IFRS). Particular emphasis will be placed on developing an understanding of significant differences between the current United States Generally Accepted Accounting Principles (GAAP) and IFRS standards. Students will also learn the pros and cons of U.S. GAAP and IFRS approaches for select technical accounting issues. Some other non-IFRS related topics include International Taxation, International Transfer pricing and the impact of culture on the development of accounting standards and practices throughout the world.	
<b>AC 0392 Internship</b>	<b>3 Credits</b>	<b>AC 0530 Accounting for Governments, Hospitals, and Universities</b>	<b>3 Credits</b>
<b>Prerequisites:</b> Junior standing.		This course examines the generally accepted accounting principles applicable to governmental entities (as issued by GASB) as well as accounting principles applicable to not-for-profit entities (as issued by FASB). The focus will be on the financial statements and reports prepared by state and local governments and financial reporting for the wide array of not-for-profit entities with an emphasis on the contrast of these entities with for-profit accounting.	
<b>AC 0393 Internship</b>	<b>1 Credit</b>	<b>AC 0550 Accounting Information Systems and Technology</b>	<b>3 Credits</b>
<b>Prerequisites:</b> Junior standing.		This course analyzes the methods used to capture, process, and communicate accounting information in a modern business enterprise. Students learn to document business transaction cycles, identify weaknesses, and recommend internal control improvements. They may design and build a module of an accounting information system using appropriate database technology.	
<b>AC 0394 Internship</b>	<b>1 Credit</b>		
<b>Prerequisites:</b> Junior standing.			
Students gain practical experience in accounting. Students must have a GPA of 2.5 or higher. Enrollment by permission only.			
<b>AC 0397 Independent Study</b>	<b>3 or 6 Credits</b>		
<b>Prerequisite:</b> Senior standing.			
This course provides students with the opportunity to study and research a specialized topic under faculty guidance. Students must have a GPA or 2.5 or higher. Open to Accounting majors only. Enrollment by permission only.			
<b>AC 0398 Independent Study</b>	<b>3 or 6 Credits</b>		
<b>Prerequisite:</b> Senior standing.			
This course provides students with the opportunity to study and research a specialized topic under faculty guidance. Students must have a GPA or 2.5 or higher. Open to Accounting majors only. Enrollment by permission only.			

**AC 0555 Issues in Internal Audit****3 Credits**

This course covers internal audit from a broad perspective. Course topics cover three main areas, internal audit: (1) basics, (2) risks, and (3) metrics. During the course, students will develop critical thinking skills (particularly employing professional skepticism) and learn to effectively communicate their professional opinions.

**AC 0560 Audit Issues in a Global Environment****3 Credits**

This course will expose students to the global profession of auditing, with a primary focus on public company auditors. Topics will vary any given semester, but may include the following: the different international organizations that set auditing standards and enforce auditing standards; the impact of culture on auditing standards and practices throughout the world; the impact of International Financial Reporting Standards on international and U.S. auditing rules; the evaluation of audit evidence; auditor independence; materiality; internal controls; computer assisted audit tools and techniques; fraud detection and forensic accounting. The course is taught seminar style, with students leading the discussions of cases and current articles. Assignments are designed to develop students' written and oral communication skills, analytical skills, and critical thinking skills.

**AC 0565 Forensic Accounting****3 Credits**

This course provides students with a foundation in investigative accounting. Topics covered include identifying, investigating and documenting fraud and providing litigation support for forensic engagements. With an emphasis on case analyses and/or independent research, students taking the course will have the opportunity to improve their critical thinking and written and oral communication skills, particularly as they relate to the legal settings associated with investigative accounting.

**AC 0570 Issues in Accounting Ethics****3 Credits**

This course investigates ethical problems in contemporary accounting practice. The goal is to increase students' ethical perception so they are better able to identify, consider, and ultimately act on the ethical issues they may face in their professional accounting career, regardless of specialty area (e.g., audit, tax, and corporate accounting). The course is taught seminar style, with students leading the discussions of cases and current articles. Assignments are designed to develop students' written and oral communication skills, analytical skills, and critical thinking skills.

**AC 0580 Financial Statement Analysis****3 Credits**

The course is designed to increase and extend the knowledge of the student in financial statement information and topics introduced in undergraduate courses in intermediate and advanced financial accounting through lecture, problem solving and case analysis. A critical examination of both objective and subjective aspects of financial reporting will be undertaken with both quantitative as well as qualitative assessments of financial information emphasized.

**AC 0585 Seminar: Special Topics in Accounting****3 Credits**

This course presents recent practitioner and academic literature in various areas of accounting, including guest speakers where appropriate. Topics change semester to semester, depending upon faculty and student interests.

**AC 0590 Research on Contemporary Issues in Accounting****3 Credits**

This course is a designated research course. In it students will investigate, analyze, develop, and present recommendations for emerging issues, recent pronouncements of accounting rule-making bodies and/or unresolved controversies relating to contemporary financial reporting. In doing so, students will consider institutional, historical, and international perspectives. In their research, students are expected to use authoritative resources (e.g., FASB and/or IASB pronouncements). The course is taught seminar style, with students leading the discussions of cases and current articles. Assignments are designed to develop students' written and oral communication skills, analytical skills, and critical thinking skills.

**AC 0591 Practicum in Accounting****3 Credits**

This course builds on the in-class lessons covered during the student's graduate studies by providing the student with the opportunity to apply his/her academic knowledge to a professional accounting context. As such, it is an experiential learning activity. Successful completion of the practicum will entitle students to three credits that count as a graduate-level accounting elective. Enrollment by permission of the department chair or designee. This course may not be repeated for credit.

**AC 0598 Independent Study****3 Credits**

This course provides students with an opportunity to develop research skills while exploring a specific contemporary accounting issue with a full-time faculty member specializing in the area of the discipline. Students are expected to complete a significant research paper as the primary requirement of this course. Enrollment by permission from Department Chair or designee only.

## American Studies (AS)

**AS 0200 Roots of American Culture****3 Credits**

**Prerequisite:** One American Studies Gateway course.

This course provides an introduction to the study of American culture. In familiarizing students with the variety of interdisciplinary ways to approach American Studies, students will examine the diverse experiences, intellectual traditions, and cultural touchstones that make American life a rich and fascinating object of study. Using a variety of sources, students will survey the following themes: race, ethnicity and immigration; expression and imagination; values and ethics; gender; institutional power and politics; and America as a global identity.

**AS 0201 The American Intellectual Tradition****3 Credits**

A seminar on major ideas and themes that have helped shape American life, this course makes a conscious effort to demonstrate the interaction between intellectual, social, and cultural dynamics in the formation of America.

**AS 0350 Internship****1-3 Credits**

The internship program allows students to gain on-site access experience in a wide variety of fields, including, but not limited to, law, marketing, magazine publishing. These positions are available upon recommendation of the program intern supervisor, under whose guidance the students assume the jobs, which require 10-15 hours a week. Students may take one internship for credit toward the American Studies major. Students may take a second internship for elective credit. Enrollment by permission of the program intern supervisor only.

**AS 0361 American Civil War: Myth and Reality****3 Credits****Attributes:** ASHI American Studies: History

This course exposes students to an interdisciplinary method of learning. While using standard historical texts to establish the facts regarding the American Civil War, this course explores the sometimes confusing and contradictory versions of the Civil War as depicted in literature, photography, feature films, documentary films, music, painting, and other modes of expression.

**AS 0383 America in the 1930s: A Decade of Change****3 Credits****Attributes:** ASHI American Studies: History

The Great Depression represents the catalytic agent in America's extraordinary transformation in the 1930s, a decade during which the changes in the economic and political sectors provided the matter for American cultural life. This course acquaints students with the complexities of this pivotal period in American life through feature films and documentaries, popular and serious fiction, the American theatre of the time, popular music, public and private art, and mass circulation and little magazines, while introducing them to an interdisciplinary methodology.

**AS 0389 Literature and Religion: The American Experience****3 Credits**

This course surveys the relationship of literature to religion in the history of American letters. Beginning with the moral didacticism of early Puritan literature, American writers have manifested a persistent concern with religio-ethical matters as well as with the impact of religious institutions in shaping our social and cultural environment. Using literary texts by major American writers, the course evaluates the critical perspective and relevance of the imaginative writer's treatment of religious questions.

**AS 0399 Independent Research Project****3 Credits**

During their senior year, each American studies major writes a research paper under the supervision of several participating faculty members. Students integrate different intellectual disciplines in the design and execution of their projects.

**AS 0400 Critical Issues in American Studies****3 Credits**

This graduate seminar provides an introduction to the field of American Studies. Using key books and essays in American Studies, students will familiarize themselves with the diverse cultural and intellectual traditions that have created the American experience. Using interdisciplinary approaches, students will survey the following themes in American society and culture: race, ethnicity and immigration; expression and imagination; values and ethics; gender; institutional power and politics; and America and the world.

**AS 0404 American Studies Graduate Project****3 Credits**

The culminating component of the MA program is the Graduate Project. With the guidance of a faculty mentor, the student undertakes a major research project focused on an approved American Studies topic. The faculty mentor and student will choose a second faculty reader from another discipline within the American Studies Program. At the outset, the student will register for AS 404 with the faculty mentor and will provide a proposal and preliminary bibliography. The project carries three credits and usually is completed over the course of one semester. Specific guidelines are distributed by the Graduate Program Director.

**AS 0410 Introduction to Women's and Gender Studies****3 Credits**

This course introduces students to the theories and concepts of the interrelated fields of Women's Studies and Gender Studies, Masculinity Studies, and Sexuality/Queer Studies. We will discuss the development of these fields, their application in various disciplines, and their importance in American Studies. The course uses theoretical readings, novels, and popular films to explore aspects of gender studies in everyday life.

**AS 0415 Civil Liberties I****3 Credits**

This course examines the freedoms afforded by the Constitution and the Bill of Rights and the role of the federal courts, especially the Supreme Court, in protecting individual rights. It focuses on such areas of law as freedom of speech and press, freedom of religion, and the right to privacy. Particular attention is paid to the equal protection and due process clauses of the Fourteenth Amendment and the relationship to such issues as school desegregation, voting rights, affirmative action, and criminal procedure.

**AS 0416 Civil Liberties II: Criminal Justice****3 Credits**

This course examines the investigatory and adjudicatory processes of the American criminal justice system. The course begins with a brief introduction to criminal law, its sources, and development. It then moves to an analysis of the evolutionary development of due process focusing on the right to counsel, search, and seizure, the role of the police in interrogations, confessions, and investigations. The focus then shifts to an examination of the criminal trial and the respective roles of prosecutor, defense attorney, judge, and jury. Attention is also given to the issues of bail and "plea-bargaining." The course concludes with an analysis of the goals of punishment, the Eighth Amendment, and the function of the correctional system.

**AS 0450 Supreme Court in the 1960s****3 Credits**

This course analyzes the dynamics of the Earl Warren Supreme Court and its impact on American society through decisions on such issues as reapportionment, right to privacy, school prayer, libel, and civil rights. The course examines major criminal rights decisions of the Court such as search and seizure, self-incrimination, and the right to counsel, and considers the impact of these decisions on subsequent cases and current issues related to the cases.

**AS 0453 American Popular Entertainments and Social History****3 Credits**

Popular entertainments have great power. "They tell us what is on the minds of ordinary people at any given moment - their concerns, biases and anxieties - and in turn refine them and restate them in a palatable, easily understood way," wrote Professor Emeritus Brooks McNamara of New York University of this new field of scholarly inquiry that plumbs America's popular entertainments as a means of understanding its social history. This course will examine critical live entertainment forms that flourished in the years between the conclusion of the Civil War and the end of the 1920s largely due to increased leisure time, improved transportation, and rapidly developing cities. Popular entertainment -- amusements aimed at a broad, relatively unsophisticated audience -- were frequently American reinventions of European imports, such as the circus, while others, like the Minstrel Show, were uniquely American creations. We will begin the course with an intensive look at the Minstrel Show as a key to the solidification and perpetuation of American racist stereotypes and then consider Circus, the Wild West Show, Vaudeville, Burlesque, Medicine Show, Chautauqua, and popular dramas such as Toby, Tab, and Tom shows, as manifestations of American society of the late 19th and early 20th centuries.

**AS 0461 The American Civil War****3 Credits**

This course employs the interdisciplinary method of learning in examining the American Civil War. While using standard historical texts to establish the facts regarding the War, the course focuses on the sometimes confusing and contradictory versions of the War depicted in literature, photography, feature films, documentary films, and other modes of expression.

**AS 0471 Introduction to Native American Studies****3 Credits**

This course explores a range of genres, for example autobiography, novels, short stories, film, and poems, by American Indian writers and filmmakers from the 18th through 21st centuries. We will rigorously examine how Native peoples have shaped and continue to shape their identities in and against U.S. colonialism. Writers and filmmakers may include, but are not limited to, Apess, Eastman, Za, Silko, Momaday, Welch, Eyre, Redroad. Formerly ASEN 0486.

**AS 0479 Islam in America****3 Credits**

The course treats the history of Muslims in America from the early 19th century to the present. Topics include: the basic tenets of Islam; changing and diverse religious traditions and ideas; Islam among African-Americans; the role of women; concerns about prejudice and unfair treatment; and political views and practice before and after the September 11, 2001 terrorist attacks.

**AS 0483 America in the 1930s: A Decade of Change****3 Credits**

The Great Depression represents the catalytic agent in America's extraordinary transformation in the 1930s, a decade during which the changes in the economic and political sectors provided the matter for American cultural life. This course acquaints students with the complexities of this pivotal period in American life through feature films and documentaries, popular and serious fiction, the American theatre of the time, popular music, public and private art, and mass circulation and little magazines, while introducing them to an interdisciplinary methodology.

**AS 0484 Battle Over Family Values in American Politics****3 Credits**

The course examines family as an evolving American political and cultural ideal and investigates changes and continuities in American family politics through the twentieth century. It explores the causes, implications, and contexts for the rise of numerous political debates that have centered on the American family such as welfare and anti-poverty policies, LGBT rights, contraception and abortion, and immigration. It also familiarizes students with multiple forms of social scientific writing, methods of research design and original data gathering.

**AS 0486 Health and Healing in America, 1650 to 2000****3 Credits**

This seminar explores the idea of America through the lens of major themes in the history of health and medicine from the colonial era to contemporary America. Students will consider the changing American identity from the colonial era to the present as they engage with cultural artifacts evocative of a population grappling with the health and diseases in a land new to Europeans, medicine and health in the age of science and industrialization, and medicine and health in an age of technology.

**AS 0488 Frontier in American Culture****3 Credits**

The frontier – traditionally understood as the place where "humanity" comes into contact with its apparent absence in the shape of alien beings and landscapes – has been the subject of some of the most lasting powerful stories in the formation of U.S. national identity. The purpose of this course is to investigate the ideological underpinnings of this myth and its consequences, as well as to explore alternative conceptualizations of the frontier, particularly as a "rhizomatic" space where cultures meet and grapple with one another. Materials for the course are drawn from literature, film, painting, photography, and popular culture.

**AS 0499 Independent Study****3 Credits**

Students arrange for independent study with a professor willing to serve as a tutor and under whose direction they will write a research paper of approximately fifty pages. This project should be completed in one semester. All independent study must have the approval of the program director. Students may take only one independent study toward the MA degree.

**ASAH 0441 Fine Art vs. Anti-Art: 1917 to 1967****3 Credits**

Dr. Wayne Craven writes in American Art: History and Culture, "As the new century opened America was a nation in transition, and ripe for many kinds of revolutions - in politics, social systems, and certainly in literature and painting. [These] social shifting values and forces were occurring within American society at large." Focusing on the 50 years from WWI to Vietnam, this class examines the artistic debates and ideological struggles manifested by American art. During this time, there is a shifting barometric needle of stylistic expression. On one side, we see an entrenched, traditionalist school that retains the noble beaux arts criteria for realism and classical content. Artists to be studied in this school are: Henri, Sloan, Hopper, Marsh, Cadmus, Benton, Curry, Wood, Sheeler, Demuth and Wyeth. On the other side of the aesthetic spectrum, we encounter rebels leading the avant-garde. Sparked by the new "isms" of European modernism, artists to be discussed include: Duchamp, Stella, Dove, O'Keeffe, Gorky, Pollock, Rothko, Frankenthaler, De Kooning, Motherwell. The culmination and convergence of these parallel tracks arrive with the neo-realist but equally avant-gardist Pop art movement of the 1960s. Warhol, Rosenquist, Johns, and Wesselman use hard-edge realism to convey anti-establishment parodies and camp spin-offs of high culture. The period between 1917-1967 becomes, then, the pivotal shift when traditionalism is converted into a new cultural paradigm ending modernism as a distinct period.

**ASAH 0444 American Visual Art History****3 Credits**

This class focuses on a selection of American Masters who came to define the American experience as visual innovators reflecting and transforming their times. Among the artists explored are: Thomas Cole, Winslow Homer, John Sloan, Frank Lloyd Wright, Georgia O'Keefe, Edward Hopper, Jacob Lawrence, Lee Krasner, Jackson Pollock, Andy Warhol, and Judy Chicago. Each artistic biography is presented as a filtered lens through which America's social, political, literary and economic themes are manifested in painterly expressions. Within this cultural framework, we examine the creative spirit of each age in the American experience. The course combines classroom illustrated slide lectures, discussions, and field trips to study on-site major collections of American art at museums including: The Yale University Art Gallery, Wadsworth Atheneum, New Britain Museum of American Art, Metropolitan Museum of Art, and Whitney Museum of American Art.

**ASEN 0447 Poetry in America****3 Credits**

A survey of major developments in American poetry from the mid-19th century to the late years of the 20th century, this course emphasizes the poems of Walt Whitman, Emily Dickinson, Robert Frost, T. S. Eliot, and Langston Hughes. The course also offers an introduction to the works of Ezra Pound, E. E. Cummings, Amy Lowell, Marianne Moore, and William Carlos Williams, as well as to Beat poetry (Ginsberg, Ferlinghetti), and to the confessional movement that dominated the second half of the 20th century (Robert Lowell, Anne Sexton, Sylvia Plath). The focus is on the shifting patterns of poetic style and on the evolution of American sensibility and experience as expressed in the poems under discussion.

**ASEN 0488 Award-Winning American Novels****3 Credits**

In this course students will read a variety of award-winning contemporary American novels. The novels will be selected from among the most prestigious prizes given in American letters each year, including The National Book Award, National Book Critics Circle Award, The Pulitzer Prize, and the Pen/Faulkner Award. These awards are given annually to the best novels published each year. The course will investigate what makes each novel "American" thematically, culturally, and stylistically. Among the ten novels to be studied will be The Known World, Martin Dressler, Motherless Brooklyn, The Great Fire, and Confessions of Nat Turner.

**ASEN 0490 The Contemporary American Memoir****3 Credits**

This course is a study of some of the most important contemporary memoirs written by Americans in the last 30 years. With the readings, students will analyze what makes a memoir a memoir and in particular, what is quintessentially American about each one.

**ASHI 0415 Inventing Themselves: African-American Women in U.S.****History****3 Credits**

At the intersection of race, gender, and class, African-American women often challenged the codification of blackness and femaleness as well as a limited conception of class consciousness. From the diaspora to the present, they created forms of resistance, devised survival strategies, and transmitted cultural knowledge while defying racial/gender stereotypes. The multiple roles assumed by African-American women during their struggle from slaves to citizens in the United States represent a complex study of the relational nature of difference and identity. This course focuses on African-American women as subjects and agents of pivotal importance within the family, community, and labor force.

**ASHI 0437 American Prophetic Tradition****3 Credits**

This intensive reading and writing seminar examines in some depth individuals and social movements in U.S. history that acted out of religious and philosophical traditions. Topics covered include biographies, auto-biographies, writings, and diaries of such figures as Mary Dyer, Roger Williams, John Dickinson, John Ross, Emma Willard, Lydia Marie Child, W.E.B. Dubois, Randolph Bourne, Walter Rauschenbusch, Dorothy Day, Abraham Heschel, and Robert Coles. The course looks at the prophetic roots of religious liberty, women's suffrage, abolitionism, the labor movement, populism, Civil Rights, and the '60s. Five three-page critical book reviews and one longer project are required.

**ASHI 0439 The Tumultuous 20th Century: Key Issues in United States Political and Social History****3 Credits**

The United States in the 20th Century has seen massive strikes, social upheaval, political challenge, and unparalleled prosperity and growth. This intensive reading, writing, and discussion seminar examines key issues and figures in the political and social changes of the 20th century - from Progressivism to Bill Clinton, from the first Red Scare and the rise of the American Civil Liberties Union to current struggles over political and civil rights in the context of the War on Terror.

**ASHI 0442 Immigration, Ethnicity, and Race in United States****History****3 Credits**

This intensive reading, writing, and discussion seminar examines the history of U.S. immigration in the 19th and 20th centuries. Arranged thematically within a chronological framework, the seminar situates the United States within the context of global migration patterns and economic development. The first part of the course investigates patterns of migration and community settlement, family strategies of survival and adaptation, and immigrant cultures. The second part analyzes the reception of successive immigrant groups. Most importantly, the course explores how race, ethnicity, assimilation, acculturation, and Americanization were defined by American government and society. Throughout, the course conducts a critical evaluation of how historians and other scholars have studied immigration and immigrant communities and examines today's perceptions of the American immigrant experience. Varied readings include monographs, oral histories, reform investigations, and a novel.

**ASHI 0449 Historical Cultural Geography****3 Credits**

This seminar will teach students various aspects of researching and constructing a historical geographical study, using one community's land records, tax records, genealogical records, and maritime records. The course will include lab work, training in computer techniques, including geographic information science (GIS) technology, which will provide students with a usable skill that is applicable to many professional careers. The case study will change each time the course is offered. Most recently, it was "Little Liberia," an early Free Black community in the South End of Bridgeport in the 1820s and 1830s and the site of the Freeman Houses, built in 1848 and listed in the National Historic Register.

**ASHI 0451 Crises and Turning Points in United States Foreign Relations, 1776 to 2009****3 Credits**

This seminar explores crises and turning points in U.S. Foreign Relations from the American Revolution to 9/11, the Iraq War, Afghanistan and up to the present, including the Alliance with France, the War of 1812, Manifest Destiny, the Mexican War, Indian Removal, the Spanish-American-Cuban-Filipino War, World War I, Pearl Harbor, the Cuban Missile Crisis, the Vietnam War, the Gulf War, Bosnia, Afghanistan, Iraq, Iran, and the resurgence of China and Russia.

**ASIT 0481 Visions of Italy and America in Film****3 Credits**

Adaptations and critiques of genres and themes indicate cinematic health. Italian cinema, which has given rise to movements such as neorealism, commedia all'italiana, and the spaghetti western, has provided the original material for adaptations by directors from other countries, notably the United States. The prevalence of American adaptations is a measure of the artistic contribution of the Italian national cinema. In this course we examine the phenomenon of adaptation and interpretation of Italian films from the postwar period until today. After a condensed review of more than 60 years of Italian cinematic history, we examine several American interpretations of Italian film classics. Garnett's The Postman Always Rings Twice (1946), based upon James Cain's novel, revisits Visconti's Ossessione (1943). Neil Simon's Sweet Charity (1966) and later Woody Allen's Purple Rose of Cairo (1985) re-tell Fellini's tragic tale of Le notti di Cabiria (1957). More subtle parallels are found in Neil LaBute's Nurse Betty (2000) and Fellini's Lo scicco bianco (1956). Brian DePalma's Blow Out (1981), starring John Travolta, maintains the premise of Antonioni's Blow-Up (1966). Madonna and Guy Ritchie's 2002 remake of Swept Away (1974), as well as Garry Marshall's adaptation Overboard (1987), reveal the impact of Wertmuller's original. These American reflections on Italian films, themselves dark mirrors reflecting on the themes and assumptions of American film hegemony, offer another means to appreciate the powerful insights of self-reflection in the Italian postwar period.

**ASIT 0493 Italian-American Experience****3 Credits**

Students analyze the concept of nationality and national identity in literature, film, and critical essays by and about Italian-Americans and discuss the concept of race and racial origins together with the phenomenon of emigration. The course addresses role and representation differences for men and women in this subgroup of American society, with particular consideration given to the ethnic roots of these differences. It also examines the ways in which poetry, prose, and film reveal Italian ethnicity in 19th- and 20th-century America, with special emphasis on the sense of otherness that this immigrant group experienced.

**ASMU 0401 History of Jazz****3 Credits**

This course traces the development of American jazz from its origins in black musical traditions. Topics include the roots of jazz in ragtime, blues, work songs, and march music. Also addresses the development of different jazz styles, such as Dixieland in the '20s, swing in the '30s, bop in the '40s, and present-day evolutions. The course emphasizes connecting the historical period with the music of jazz - America's original art music.

**ASMU 0402 History of Rock****3 Credits**

This course surveys the musical and social trends that resulted in the emergence of rock and roll as an important musical and cultural force in America. The course traces the roots of rock, blues, and country styles and, showing how they merged with popular music, studies periods from the 1950s to the present, along with Elvis Presley, Chuck Berry, Little Richard, the Beatles, the British invasion, folk music, Bob Dylan, jazz and art rock, Jimi Hendrix, the west coast movement, and the music industry. The social, political, and cultural aspects of rock as they have affected American life provide an American studies emphasis.

**ASMU 0403 Critical Issues in American Popular Music****3 Credits**

This course provides an in-depth look at the important musical, social, and racial issues in American popular music spanning from the media exploitation of the blues in the 1920's through current issues in hip hop. Subject areas will include blues and its origins, jazz and modernism, the obstacles of race in music, the death of rhythm and blues, rock's evolution in the 50's, rap and hip hop culture, and issues in both postmodernism and perverse modernism as seen by many music and art critics.

**ASPO 0461 The American Presidency****3 Credits**

This course examines the role of the President in the political system and considers the origins, qualifications, and limitations of the office from which the President functions as chief executive, legislative leader, and link with the courts. The course evaluates presidential achievement of domestic and foreign policy goals by examining presidential powers and the President's roles as party leader and politician. It also reviews questions of reform.

**ASRS 0442 Jews and Judaism in America****3 Credits**

What has it meant in the past and what does it mean today to be a Jew in America? Viewing Judaism and Jewishness as inseparable from one another, Jews remain a distinct, though by no means homogeneous, religious and ethnic group in American society. This course explores the religious, cultural, social, economic, and political diversity that exists among American Jews, as well as distinctive beliefs, concerns, and experiences that continue to unite them. The course pays special attention to issues related to immigration, acculturation, gender, and African-American/Jewish relations.

**ASSO 0412 Contemporary American Society****3 Credits**

This course analyzes the dominant ideology and values that have shaped American culture - namely, the Protestant ethic - and how and why these values are changing. The course also analyzes major institutional trends that have transformed and continue to transform America and the modern world - bureaucratization, industrialization, urbanization, the rise of the business corporation, science, and technology - and the effects of these institutions in producing new personality types, mass society, and rapid social change. The course provides a macro-sociological framework.

**ASSO 0465 Urban Sociology: New York****3 Credits**

This course examines the evolution of the city in the American experience by focusing on New York City. Both New York's unique history and contemporary social structure are examined. Readings and classroom discussion are combined with three field trips to New York on three successive Saturdays. Each field trip explores an area of New York.

**ASSO 0469 Women: Work and Sport****3 Credits**

Gender stratification exists in most areas of everyday life throughout American society. This course concentrates on the varying experiences (based on class, race, and ethnic differences) of women in the workplace and on the playing field. Sex segregation and sex integration as complex historical and contemporary processes constitute the main focus of the first part of the course. Within this context, economic and social changes will be viewed as historically having an enormous impact on the roles of women in the work force and how they have managed these roles. In turn, their experiences will be analyzed as catalysts of societal change. The last part of the course focuses on women as athletes. Their varied experiences in this world parallel to a large extent their experiences within the workplace. The underlying theme is that the sports arena mirrors the larger society particularly in terms of gender roles. What is seen as "acceptable and non-acceptable" behavior for women in the everyday world is reflected in their roles as athletes. The impact of gender on socializing children into sport and sport itself as a socializing agency is the foundation for critically assessing the outcomes of Title IX and the existence of homophobia in sport.

**ASTA 0420 American Drama and Society****3 Credits**

This course explores the social, political, and economic forces that have shaped the United States via the themes and perspectives expressed in its drama. The course covers the late 18th century through the present, paying particular attention to dramas and more populist forms of entertainment that specifically address the notion and development of a distinctly American voice and ideology. Students begin with Royall Tyler's 1787 comedy, *The Contrast*, which offers the first wholly American character - Jonathan the "true-blue" Yankee - and end with Tony Kushner's monumental two-part drama, *Angels in America* (1991), which juxtaposes American Judaism and Mormonism within the context of politics, homo- and heterosexual relationships, and the AIDS epidemic. In between, students consider the work of seminal American dramatists (O'Neill, Miller, Williams, and others) as well as trends in popular theatre forms (minstrelsy, wild west shows, vaudeville, burlesque, musical comedy) in creating the totality of the American cultural experience.

**ASTA 0421 Ethnic American Performance and Society****3 Credits**

The course will explore the social, political, economic, and cultural forces that have shaped the United States via the themes, perspectives, and production choices expressed in its ethnic drama and performance. We will consider plays and performance pieces (such as pow-wows, Chinese New Year celebrations, and the like) created by African-Americans, Asian-Americans, Latino/a Americans, and Native Americans, all of whom have been marginalized voices existing outside of mainstream theatre, an arena historically dominated by white males. We shall pay particular attention to issues of race, gender, and class apparent in both the play texts as well as in the ideological perspectives of the playwrights. We also will note the choice of subjects, themes, and environments and consider how these are placed within the larger context of American culture and society.

# Anthropology (AY)

## AY 0010 Introduction to Four-Field Anthropology

**3 Credits**

**Attributes:** WDIV World Diversity

Who are we, where do we come? Why is life unfair, and why do intolerance, poverty and inequality persist? Anthropologists hold no monopoly on truth or explanation, but they do employ a wide range of methods to explore what it means to be human. In this introductory anthropology course we survey the four sub-fields that comprise this multi-disciplinary science: biological anthropology, archaeology, sociocultural anthropology, and linguistics. Over the course of the semester, we will explore what anthropology and its sub-fields contribute to our understanding of ourselves, our histories, and our world.

## AY 0052 Culture and Political Economy

**3 Credits**

This course examines the ways in which global political economic dynamics impact local cultures. Students will begin with classic texts in social theory, examine how this theory informs contemporary debates, and look to small-scale societies in the Global South for an intimate, ethnographic perspective of our global era.

## AY 0110 Biological Anthropology

**3 Credits**

The study of natural selection, primate evolution, and living primate societies provides a baseline from which to study the evolution of the human species. The course also traces human cultural and social development from the foraging bands of the first humans to the civilizations that appeared at the dawn of written history. Students also examine physical variation among living populations. This course meets the core natural science requirement and not the social science requirement.

## AY 0111 Cultural Anthropology

**3 Credits**

**Attributes:** WDIV World Diversity

Why is there such variety in the way people live, dress, speak, eat, love and fight? This course explores the shared patterns of thought, behavior, and feelings - that is, the cultures - of a number of peoples and presents explanations for the forms they take and the differences between them. The course helps students develop a new perspective on the values and institutions of Western culture.

## AY 0115 Biomedical Anthropology

**3 Credits**

**Attributes:** HSSS Health Studies: Social Science

This seminar-style class explores biological anthropology to examine the dynamic relationship between health, biology, and culture. Across cultures, geography, and time, we uncover the underlying processes that inhibit or enhance human health. From the biology of stress to the eradication of tuberculosis and Ebola, we'll see biological anthropology's invaluable contributions to modern medicine, public health, and global health management. Students will learn theoretical and applied approaches to understand the evolution and ecology of disease; human development and metabolism; and sexuality and gender; as well as health policy and medical practice (in terms of cultural universals, differences, and disparities). This course meets the core natural science requirement and not the social science requirement.

## AY 0130 Cultures of Africa

**3 Credits**

**Attributes:** BSFC Black Studies Focus Course, BSSS Black Studies: Social and Behavioral Sciences, WDIV World Diversity

This course explores the wealth of cultural traditions and histories from Africa. It begins with an abridged review of African history from the dawn of humankind to 21st century challenges and achievements. Then the focus shifts to regional case studies through African literature, film, and music. For the final segment of the class, students conduct and present original research on the cultural dynamics of critical issues facing contemporary Africans. Students learn and practice research methods in African Studies and Anthropology.

## AY 0135 Refugees and Culture in the Modern World

**3 Credits**

**Attributes:** HACA Humanitarian Action Minor Context Course, WDIV World Diversity

**Prerequisite:** Junior standing.

This course provides students with an overview of refugee movements with a focus on cultural encounters across the world. Students will focus on the social integration and identity adjustments of refugees in their host communities and/or country. The course will also allow students to learn about cultural adjustments of both refugees and host communities whether it is in the United States, Europe, Middle East, or Africa. Students will explore how features of the specific societies serve to inhibit or augment cultural adjustments and meet the new needs and realities of populations in movement.

## AY 0140 Anthropology of Latin America and the Caribbean

**3 Credits**

**Attributes:** WDIV World Diversity

This course examines cultural diversity in Latin America and the Caribbean. Adopting a cross-cultural, anthropological perspective the course examines Latin American and Caribbean societies before European contact, as well as the processes of conquest and colonialism. Special consideration is given to gender and gender relations, race and ethnicities, religion and religiosity, health and folk medicine, food and food cultures, globalization, tourism and trade, poverty and inequality, labor, popular culture, music, violence and security, social movements, people and the environment, and migration.

## AY 0145 Anthropology of Food

**3 Credits**

The way humans make and consume food shapes our lives and transforms our world. From our hunter-gatherer past to your family's most recent holiday dinner, in this course we explore the relationship between food, society, and our environment. Through cross-cultural, historical, and ecological studies, the anthropology of food reveals fascinating patterns of cooperation, inequality, and human diversity. The class is divided into three parts: making food (food production), eating food (food consumption), and being food (relationship between food and identity). Our semester includes three feast days and an off-campus field trip.

## AY 0152 Islamic Societies and Cultures

**3 Credits**

**Attributes:** WDIV World Diversity

This is an anthropological inquiry into a number of Muslim societies. This course investigates the cultural, ethnic, and linguistic diversity within Muslim societies, while seeking to understand what they have in common with each other and with their non-Muslim neighbors.

<b>AY 0163 Culture and Inequality</b> <b>Attributes:</b> PJST Peace and Justice Studies This course focuses on the concepts of "culture" and "inequality," two terms employed to deal with "difference" in a range of intriguingly different and morally charged ways. The course explores recent work in anthropology, economics, and sociology using culture and/or inequality as a lens through which to view various issues in contemporary social theory. In the process, students work to discover what kind of lens culture and/or inequality provides, how our implicit understandings of these ideas shape how we think about the world, and how we might better use such ideas to do our thinking.	<b>3 Credits</b>	<b>AY 0199 Philosophy and Economic Anthropology</b> <b>Attributes:</b> PMMP Philosophy Major: Major Philosopher <b>Prerequisite:</b> PH 0101. This course examines the economy from philosophical and anthropological perspectives. We will investigate why people produce and exchange things, why they seek to amass things in some circumstances and give them away in others, and how our modern understandings of value, debt, and rationality emerged.	<b>3 Credits</b>
<b>AY 0168 Sex, Gender, and Sexual Orientation</b> <b>Attributes:</b> WDIV World Diversity, WSGF Women, Gender, and Sexuality Studies: Gender Focused Through a comparison of selected Asian, Middle Eastern, African, and Native American societies, this course explores the ways that culture can mold the biological facts of sexual difference into socially accepted behavior, creating two, and sometimes more, genders. Topics include the allocation of work, power, and prestige between men and women; the belief systems that legitimate gender roles; and some possible causes for the wide variation that exists among cultures.	<b>3 Credits</b>	<b>AY 0200 Anthropological Research Methods</b> <b>Attributes:</b> HASM Humanitarian Action Minor Skills/Method Course How does anthropological field research help us understand our lives, our communities, and our world? How might anthropological research methods help you explore and pursue your own passions or professional ambitions? In this course students conduct original anthropological field research, write an original journal article manuscript, and they develop an online portfolio to share results and conclusions beyond our classroom. Over the course of our semester, students learn and practice techniques for designing, proposing, conducting, analyzing, and sharing anthropological field research. The class is divided into four sections: Developing Your Research Question, Your Anthropology Toolkit, Anthropological Analysis and Writing, and a final Research Symposium.	<b>3 Credits</b>
<b>AY 0175 Sustainable Development: Anthropological Perspectives</b> <b>Attributes:</b> EVME Environmental Studies Major Elective, EVPE Environmental Studies Elective This course examines the concept of sustainability from anthropological perspectives. With a focus on the contested meaning of both "sustainability" and "development," students will grapple with various theoretical, methodological, and ethical perspectives on how to build a just future on a planet with finite resources. Learning is practice driven; students write blogs and reflective essays, they learn ethnographic research methods, and pursue independent research on sustainability in our campus community. Students integrate experiential learning with readings on ecology and economic development to critically examine the values, assumptions and data that underpin different perspectives on social change and the future of humankind.	<b>3 Credits</b>	<b>AY 0390 Special Topics (Shell)</b> Special Topics in Anthropology provides an opportunity for students and faculty to explore compelling themes that are not covered in the department's regular course rotation and curriculum.	<b>3 Credits</b>
<b>AY 0180 Grant Writing for the Social Sciences</b> <b>Attributes:</b> EVAP Environmental Studies: Applied Professional Skills , EVPE Environmental Studies Elective, HASM Humanitarian Action Minor Skills/Method Course This course will introduce students to the practicalities of international research, with particular emphasis on qualitative social science methods and the eventual aim of producing a viable grant proposal. The course will be taught from an anthropological perspective, but the skills developed should be broadly applicable to the social sciences and humanities.	<b>3 Credits</b>	<b>AY 0390C Special Topics: Anthropology and Education</b> This course addresses key topics in anthropology and education including: the study of schools and school systems, informal education, cross-cultural early childhood education, race, class, and the production/reproduction of inequality, (dis)ability, communication, and technology. Course readings focus on classic and contemporary anthropology and education texts including philosophies of education, ethnographies, and accounts of informal education in families, neighborhoods, and communities. Course requirements will be student-driven to expand upon and enhance research interests in a collaborative environment.	<b>3 Credits</b>
<b>AY 0189 Theory and Practice in Anthropology</b> This course focuses on the production of ethnographic knowledge, a form of intellectual inquiry at once art and science, evocation and explication. Emerging in the 20th century as the preeminent form of anthropological expression, ethnographies are one of the few scholarly means of understanding other cultures and societies in meaningful depth. At the same time, ethnographies reveal as much about the disciplines and societies in which they are produced as they do about distant "others."	<b>3 Credits</b>	<b>AY 0399 Independent Study</b> Independent studies experiences provide intellectually curious students with opportunities to take the reins of their education, and delve deeply into the ideas and subjects that truly inspire them. Upon request and by agreement of an individual professor in the department, students undertake a one-semester independent study on a defined research topic in anthropology.	<b>1-3 Credits</b>
<h2><b>Applied Ethics (AE)</b></h2>			
<b>AE 0262 Ethics and the Community</b> <b>Attributes:</b> PJST Peace and Justice Studies <b>Prerequisite:</b> One course in Philosophy or Religious Studies. This course surveys the philosophical grounding of the organizations in contemporary society, examining structured human groups from the household, through the village (or religious/ethnic association), to the nation-state to understand their moral undertakings in their environment; to consider how they implement and balance rights and duties, rules and compassion, autonomy and common purposes. This course gives special attention to structural injustice in the treatment of those marginalized by gender, race, or socioeconomic deficit, and includes an effort to determine where new understanding may yield suggestions for structural modification. Students are provided the opportunity to research and present projects on contemporary social problems that illustrate the themes of the course.	<b>3 Credits</b>		

**AE 0265 Ethics in Education****3 Credits**

**Attributes:** EDCG Educational Studies Cognate, EDDV Educational Studies Diversity

**Prerequisite:** One course in Philosophy or Religious Studies.

This survey of the ethical issues that arise in the classroom, school, and school district also covers those issues, to a lesser extent, in the educational policies of the state and federal government. The course directly addresses issues of race, class, and gender in the educational system, addressing entitlement to education, access to education, discipline in the educational setting, multicultural issues in general, politics, accountability, assessment, and the ethics of respect as they pertain to teachers, students, and administrators.

**AE 0270 Ethical Dimensions of Global Violence****3 Credits**

**Attributes:** WDIV World Diversity

**Prerequisite:** One course in Philosophy or Religious Studies.

A survey of the ethical implications of the new and alarming potentials for violence in a disorderly world. The new faces of violence - insurgency, terrorism inspired by religion, plans for mass destruction, children as warriors - will be examined in the context of Just War theory, the Christian commitment to social justice, and the emerging international order (and disorder). Fully half the course will explore the perspectives of the developing world, especially as violence occurs between factions from the developing world and the traditional wielders of force in the North and West.

**AE 0272 Ethics of Humanitarian Action****3 Credits**

**Prerequisite:** One course in Philosophy or Religious Studies.

This course provides students with principles and methods of ethics that they will apply to issues of humanitarian action. Examples of humanitarian action to be considered in this course include the international humanitarian system run by states, non-governmental organizations (NGOs), the United Nations and its lead agencies and, increasingly, the private sector. Students also will learn about the development of humanitarian codes of conduct, values and principles, which they will evaluate in terms of their ethical content.

**AE 0276 Ethical Dimensions of Global Business Practices****3 Credits**

**Attributes:** HACA Humanitarian Action Minor Context Course, WDIV World Diversity

**Prerequisite:** One course in Philosophy or Religious Studies.

A survey of the ethical dimensions of contemporary business practice generally, with special emphasis on the ethical implications of global business enterprise. Topics include global employment practices, human and employee rights in a global economy, the implications of external debt for the economies of developing nations, the human costs and benefits of the changes in global agriculture and food provision generally, and the work of international agencies (the World Trade Organization, the International Monetary Fund, and the World Bank in particular) in guiding the economies of the world. A three-week unit will focus on the economic implications of natural and man made disasters and humanitarian crises.

**AE 0281 Ethics of Communications****3 Credits**

**Attributes:** ENEC Digital Journalism Ethics Component

**Prerequisite:** One course in Philosophy or Religious Studies.

This course examines the moral dilemmas of media management, political propaganda, campaign promotions, public relations, and corporate communication. Topics include advertising and marketing practices, especially political advocacy and messages targeted to various audiences; truth and loyalty in public relations practices; the philosophical and constitutional bases of freedom of the press; and problems of media bias, systematic and otherwise.

**AE 0283 Environmental Justice****3 Credits**

**Attributes:** EVME Environmental Studies Major Elective, EVPE

Environmental Studies Elective, PJST Peace and Justice Studies, WSGF Women, Gender, and Sexuality Studies: Gender Focused

**Prerequisite:** One course in Philosophy or Religious Studies.

This course offers a comprehensive study of the political impact of our global environmental crisis examined through the lens of the relationship of self to society. We study current scientific, religious, economic, and political perspectives that impact our ecological reality globally, including health, trade, population, and waste issues. Working in self-selected groups, students have the opportunity to report on alternative models and activists' movements aimed at creating a global sustainable future.

**AE 0284 Environmental Ethics****3 Credits**

**Attributes:** EVHU Environmental Studies: Humanities, EVPE

Environmental Studies Elective, PJST Peace and Justice Studies

**Prerequisite:** One course in Philosophy or Religious Studies.

Students examine the environmental problems that arise in our attempts to reconcile the demands of human fulfillment and economic activity, and the requirements of ecological balance. Issues include the diverse perspectives of conservation, preservation, and deep ecology. Student projects cover the wise use of resources; pollution of land, air, and water; conservation of species and open space; global climatic change; and the future stewardship of oceans, forests, and the atmosphere.

**AE 0285 Ethics of Health Care****3 Credits**

**Attributes:** HSTE Health Studies: Traditions, Delivery, and Ethics

**Prerequisite:** One course in Philosophy or Religious Studies.

This course considers the moral dilemmas of the healthcare setting. Topics include patients' rights (medical paternalism and patient autonomy, informed consent to therapy, and participation in research); dilemmas of reproduction (technological assistance, abortion, cloning); dilemmas of life and death (assisted suicide, euthanasia, technological interventions for the dying); allocation of healthcare resources; and the special dilemmas of healthcare professionals caught in binds between HMO contracts and professional obligations.

**AE 0287 Engineering Ethics****3 Credits**

**Prerequisite:** One course in Philosophy or Religious Studies.

This course systematically explores the ethical dimensions of situations and tasks common to engineering practice. Issues include professionalism, codes of ethics, consumer risk and safety, employee loyalty and whistle-blowing, research and ownership of information, and the engineer's responsibility to the natural environment.

**AE 0291 Business Ethics****3 Credits**

**Prerequisite:** One course in Philosophy or Religious Studies.

This course investigates ethical problems in business practice. Topics include the foundation of the free-market system, personal morality in profit-oriented enterprises; codes of ethics, obligations to employees and other stakeholders; truth in advertising, whistle-blowing, and company loyalty; self and government regulation; the logic and future of capitalism; and the changing responsibilities of the manager in a rapidly globalizing business environment.

**AE 0293 Ethics of War and Peace****3 Credits**

**Attributes:** PJST Peace and Justice Studies

**Prerequisite:** One course in Philosophy or Religious Studies.

This is a survey of issues relating to war and international conflict. Topics include Just War theory, human rights issues, the impact of war on women, the role of the United Nations Security Council, and the history of global attempts to proscribe and prevent aggression. The course also looks at related issues that have emerged in recent years, such as humanitarian intervention and economic sanctions.

**AE 0295 Ethics in Law and Society****3 Credits**

**Prerequisite:** One course in Philosophy or Religious Studies. This course is an inquiry into the ethical dilemmas of making, enforcing, adjudicating, obeying and practicing the law. Topics include the nature of law and the province of jurisprudence, responsibility of the criminal bar (defense, prosecution, judicial), conflicts of interest, election or appointment of judges, the moral infrastructure of the Constitution, the limits of adjudication, and issues relating to investigative technique (torture and extreme confinement conditions).

**AE 0299 Special Topics (Shell)****3 Credits**

The course is an opportunity for the student to carry out a major project in Applied Ethics involving work in the community, derived from a previous Applied Ethics course.

**AE 0391 Seminar in Business Law, Regulation, and Ethics****3 Credits**

**Prerequisites:** Two courses in Philosophy or Religious Studies.

This seminar investigates ethical dilemmas of business management, primarily as encountered in real cases. Themes vary from year to year. Format: guest presentations by members of the business community, followed by discussion.

**AE 0399 Special Topics in Applied Ethics****3 Credits**

Students undertake an advanced program of course, field, and library work arranged with the instructor. Proposals for special topics must be approved by the director and the dean of the student's school.

## Arabic (AR)

**AR 0110 Elementary Modern Standard Arabic I****3 Credits**

The first course, the first of a two-semester sequence, teaches the essentials of phonology, script, structure, and usage, allowing students to acquire the skills of listening, speaking, reading, and writing in the standard means of communicating in the Arab world. Teaching is proficiency-based, implying that all activities within the courses are aimed at placing student learners in the context of the native-speaking environment.

**AR 0111 Elementary Modern Standard Arabic II****3 Credits**

**Prerequisite:** AR 0110.

A continuation of AR 0110, this course teaches the essentials of phonology, script, structure, and usage, allowing students to acquire the skills of listening, speaking, reading, and writing in the standard means of communicating in the Arab world. Teaching is proficiency-based, implying that all activities within the courses are aimed at placing student learners in the context of the native-speaking environment.

**AR 0210 Intermediate Modern Standard Arabic I****3 Credits**

**Prerequisite:** AR 0111.

This course, the first in a two-semester sequence, continues to build upon the skills acquired in the first-year course. Emphasis will be placed upon improving grammar, listening comprehension, and speaking and reading skills. Students will gain confidence in conversing with native speakers on a variety of topics, will be able to write more complex texts on everyday themes, and will acquire the skills to read uncomplicated authentic texts, such as newspaper articles on familiar topics.

**AR 0211 Intermediate Modern Standard Arabic II****3 Credits**

**Prerequisite:** AR 0210.

A continuation of AR 0210, this course continues to build upon the skills acquired in the first-year course. Emphasis will be placed upon improving grammar, listening comprehension, and speaking and reading skills. Students will gain confidence in conversing with native speakers on a variety of topics, will be able to write more complex texts on everyday themes, and will acquire the skills to read uncomplicated authentic texts, such as newspaper articles on familiar topics.

**AR 0381 Coordinating Seminar****3 Credits**

Students undertake readings and studies in a specialized area of Arabic language and culture, under the direction of a staff member. Designed to fill the special needs of specific students, this course is offered at the discretion of the department chair.

**AR 0382 Coordinating Seminar****3 Credits**

Students undertake readings and studies in a specialized area of Arabic language and culture, under the direction of a staff member. Designed to fill the special needs of specific students, this course is offered at the discretion of the department chair.

## Art History (AH)

**AH 0010 Origins and Transformations in Western Art****3 Credits**

**Attributes:** GDAH Graphic Design: Art History, VPCH Visual and Performing Arts Core: History Course

From the mysterious depths of Paleolithic cave painting to the soaring heights of Gothic cathedral vaulting, this course surveys the early history of Western art. The course begins with the origins of art-making in prehistoric, Mesopotamian, Egyptian, Greek, and Roman cultures before viewing the transformations of these ancient arts traditions in early Christian and medieval societies. The course offers students a working vocabulary with which to compose visual analyses of works of art and evaluate them in a social and historical context. One class takes place at the Metropolitan Museum of Art in New York City.

**AH 0011 Visual Culture Since 1400: Expression and Experimentation****3 Credits**

**Attributes:** GDAH Graphic Design: Art History, VPCH Visual and Performing Arts Core: History Course

This course surveys the history of painting, sculpture, and architecture from the 15th century to today, in Europe and the United States, including a review of classical and medieval antecedents. A central focus of this class is the study of the original contexts of works of art; most of the art we will study this semester was not made to be looked at in a museum or gallery. By seeking the original context of a work of art, one can begin to understand why, how, by, and for whom art was created and how it fits into the larger picture of human creativity. Students will visit the Metropolitan Museum of Art in New York City.

**AH 0013 Art of Africa, the Caribbean, and the Americas 3 Credits**

**Attributes:** BSCC Black Studies Component Course, GDAH Graphic Design: Art History, LCEL LACS Minor: Elective, VPCH Visual and Performing Arts Core: History Course, WDIV World Diversity

This course is an introduction to art and architecture of Africa, the Caribbean islands, and Central America, South America and North America. Major works of art and architecture will be examined to understand the respective cultures and traditions of these regions. Cultures designated by their geographical locations will provide a frame of study for African visual culture. Art of Caribbean islands and the influence of the African diaspora will be explored. The Americas will be represented by Pre-Columbian and Native American visual arts. Students will be introduced to different art historical approaches and vocabulary used to study art from each of these areas.

**AH 0014 Art of Asia 3 Credits**

**Attributes:** GDAH Graphic Design: Art History, VPCH Visual and Performing Arts Core: History Course, WDIV World Diversity

This course introduces major monuments of the arts of Asia, including architecture, painting, sculpture, ceramics, and prints. Following a roughly chronological progression spanning over three millennia, the course emphasizes contact between Asian civilizations, including South, Southeast, Central, and East Asia, as well as artistic exchanges between Asia and the West. Foci include: ancient funerary arts, the development of Buddhist art throughout the continent, and secular arts associated with imperial courts and the rise of cities. The course highlights collections of Asian art at the Bellarmine Museum, Yale University, and in New York City.

**AH 0015 History of Architecture 3 Credits**

**Attributes:** GDAH Graphic Design: Art History, VPCH Visual and Performing Arts Core: History Course

This introductory course surveys the major periods and key monuments in the history of architecture - largely in the West - from antiquity to the present. Topics include Greek and Roman temples and civic architecture; Medieval mosques and cathedrals; Renaissance and Baroque cities and their monuments; Early Modern factories and gardens; Machine Age museums and houses; and contemporary architectural developments of all sorts. Students will work with actual buildings in writing assignments, and learn the skills necessary to critique and interpret the built environment of the past and present in the United States and beyond.

**AH 0102 Art of East Asia 3 Credits**

**Attributes:** GDAH Graphic Design: Art History, VPCH Visual and Performing Arts Core: History Course, WDIV World Diversity

This course surveys the art and architectural history of China, Korea, and Japan, emphasizing cultural and artistic contact between these cultures. Periods of focus include the Shang, Han, Tang, Song, and Qing dynasties in China; the Jōmon, Nara, Heian, Kamakura, Edo and Meiji periods in Japan; and the Three Kingdoms period, Goryeo, and Joseon dynasties in Korea. The course highlights collections of Asian art at Yale University and in New York City, incorporating special exhibitions of East Asian art relevant to the course.

**AH 0109 Jewish Art: Moses to Modernity 3 Credits**

**Attributes:** GDAH Graphic Design: Art History, JST Judaic Studies Minor, VPCH Visual and Performing Arts Core: History Course

The earliest known written description of the Jewish people is a visual record on an ancient victory monument. Dated from the 13th century B.C.E., a carved stele dedicated to Pharaoh Merneptah presents a hieroglyphic relief inauspiciously boasting: "Israel is laid waste; his seed is no more." Tracing 4,000 years of Jewish art, culture, and ritual, this course is a panoramic overview of visual expression of a people wandering through six continents, innumerable styles and artistic identities. How did the ineffable theophany at Sinai spark the complexity of Judaism's struggle with Greco-Roman pagan idolatry versus attempts at capturing the "spirit of God with wisdom and discernment and the knowledge of workmanship to design designs" [Exodus 35] transforming spirituality into a living art?

**AH 0111 Greek Art and Archaeology 3 Credits**

**Attributes:** GDAH Graphic Design: Art History, VPCH Visual and Performing Arts Core: History Course

This survey covers the major developments in architecture, sculpture, and painting from the time of Homer to the collapse of the Hellenistic world. The course considers the formation of the Pan-Hellenic sanctuaries of Olympia and Delphi in the geometric and archaic periods and the rise of democracy under the leadership of Pericles in Athens, culminating in the Parthenon of the high classical period and the creation of an empire under Alexander the Great. Students explore the legacy of Greek achievement in the context of its impact on the Roman world and later art. The course emphasizes objects in area museums and includes field trips.

**AH 0112 Etruscan and Roman Art and Archaeology 3 Credits**

**Attributes:** GDAH Graphic Design: Art History, ISIF Italian Studies: Italy-Focused, VPCH Visual and Performing Arts Core: History Course

In this course we will examine art of the Roman Republic and empire, beginning with an introduction to Etruscan Italy before Roman conquest. The major themes of the course are: society as reflected in portraiture; religion as communicated in temple and domestic architecture and decoration; the organization and architecture of urban spaces; the architecture and decoration of houses. These themes will also be related to the art of other places and times, including that of the ancient Greeks and our own society. The course emphasizes objects in area museums and includes trips to world-class museums in our region.

**AH 0113 Art and Archaeology of Ancient Egypt: Images for Eternity 3 Credits**

**Attributes:** GDAH Graphic Design: Art History, VPCH Visual and Performing Arts Core: History Course, WDIV World Diversity

In this course, students will examine the art of ancient Egypt, from the unification of the pre-historic cultures of the Nile Valley to the Roman conquest. We focus on thematic examinations of various aspects of ancient Egyptian culture, as illustrated through the art, monuments, artifacts, and anthropological evidence that remains in the archaeological record today. Throughout the course, students will analyze and discuss the influence of scholarly biases and issues in cultural heritage management, and museum collecting ethics. By examining the life cycles of these works, from first creation to modern reinterpretation, students will understand that these works not only reflect a society as complex as our own but also serve an important role in contemporary culture. Students will visit the Metropolitan Museum of Art.

<b>AH 0120 Medieval Art of Western Europe</b>	<b>3 Credits</b>	<b>AH 0140 Baroque Art</b>	<b>3 Credits</b>
<b>Attributes:</b> CAOT Catholic Studies: Non-Religious Studies, FREN French Course Taught in English, GDAH Graphic Design: Art History, VPCH Visual and Performing Arts Core: History Course		<b>Attributes:</b> CAOT Catholic Studies: Non-Religious Studies, GDAH Graphic Design: Art History, ISIF Italian Studies: Italy-Focused, VPCH Visual and Performing Arts Core: History Course	
This introduction to medieval art and architecture in Western Europe, from its Roman, Jewish, and Early Christian sources through the Gothic period, explores continuity and change in art and its relationship to society and culture. We will consider the physical and sensory original environments of the artworks, including sound, smell, and touch. Other topics include the relationship of belief and ritual to religious imagery and architecture, the impact of imperial patronage on art, and the influence of Islam on Western medieval art and iconography. The class will use material from the Fairfield University Art Museum's loan collection from the Metropolitan Museum of Art and the Cloisters, and will take a field trip to the Metropolitan Museum of Art.		The 17th century in Europe was marked by profound shifts in politics, religion, and culture, which are reflected in the art produced during then. This course surveys painting, sculpture, architecture, and urbanism of the Baroque era, with a focus on Italy, Spain, and France. Among the themes explored are: the impact of religious reform on the visual arts of Catholic lands; the notion of classicism as an artistic ideal; the role of academies and the market in promoting the arts; the popularity of portraiture and self-portraiture; and the shaping of cities as works of art.	
<b>AH 0121 Celtic and Early Irish Art</b>	<b>3 Credits</b>	<b>AH 0152 Modern Art</b>	<b>3 Credits</b>
<b>Attributes:</b> CAOT Catholic Studies: Non-Religious Studies, GDAH Graphic Design: Art History, VPCH Visual and Performing Arts Core: History Course		<b>Attributes:</b> GDAH Graphic Design: Art History, VPCH Visual and Performing Arts Core: History Course	
This course traces Celtic art from its sources and history on the European continent (1200 B.C.E. to the first century C.E.) to its migration to the British Isles and its subsequent transformation as it interacts with native cultures there, particularly the Irish culture. It examines native Irish art from the stone circles and passage graves of 3000-2000 B.C.E. to the introduction of the Celtic style and the golden age of Ireland's conversion to Christianity. Rich new art forms such as illustrated bibles, jeweled chalices and reliquaries, high crosses, and the introduction of monastic and ecclesiastical architecture will be discussed. The course also considers the medieval revivals in the 19th and 20th centuries and includes a first-hand examination of Fairfield University's facsimile of the Book of Kells.		In this course we explore a diverse range of art works and issues, which were central to the practice of Modern Art in Europe and the United States from the mid-nineteenth century to the mid-twentieth century. This course focuses on the artists who challenged the institution of Western art, re-interpreted its norms, and used Modernism as both subject and context. Class revolutions, industrialization, urbanization, imperialism, and capitalism are addressed through a close study of various artists and artworks. The enormous impact of European Modern Art on the rest of the world is considered with the examination of orientalism, primitivism, and "colonial" modernisms. A variety of sources such as novels, philosophical and political texts, films, newspapers, and music are used to inform our understanding of these -isms and Modern Art.	
<b>AH 0130 Early Renaissance Art in Italy</b>	<b>3 Credits</b>	<b>AH 0164 American Art and Media Culture</b>	<b>3 Credits</b>
<b>Attributes:</b> CAOT Catholic Studies: Non-Religious Studies, GDAH Graphic Design: Art History, ISIF Italian Studies: Italy-Focused, VPCH Visual and Performing Arts Core: History Course		<b>Attributes:</b> ASGW American Studies: Gateway, ASVP American Studies: Visual and Performing Arts, GDAH Graphic Design: Art History, VPCH Visual and Performing Arts Core: History Course	
In this panoramic overview of Italian art, culture, and society between 1300 and 1520, we explore the city of Florence as the "cradle of a new world." From its art workshops and urban planning studios, the monumental Duomo of Brunelleschi rises to symbolize a new era for human creativity. Viewing masterpiece artworks, we discover the exciting shift from medieval formalism to a new aristocratic elegance, opulence, and classical humanism. In this interdisciplinary humanities course, we contrast and compare aspects of Florentine culture as symbolized and visualized in the arts. Artworks depict banking, science, engineering, diplomacy, women's traditional roles of domesticity in the court, and a new appreciation for clothing fashions. Course includes visits to world-renowned area museums allowing students to study first-hand prime examples of Florentine art. No prerequisite beyond a curiosity to learn how Renaissance art of the past enriches our lives in the present.		In tracing the themes and artistic statements of American artists, the course takes special notice of unifying national myths such as the Founding Fathers, Manifest Destiny, America as the new Eden, the frontier from the Rockies to the lunar surface, heroes from Davy Crockett to Superman, and America as utopia. Through the masterpieces of Church, Cole, Homer, Eakins, Sloan, Hopper, Pollock, Rothko, Wyeth, Warhol, and the Downtown art scene, the course answers the question: What is uniquely American about American art?	
<b>AH 0131 High Renaissance and Mannerism in Italy</b>	<b>3 Credits</b>	<b>AH 0165 The Black Experience: African-American Art and Criticism in the 20th and 21st Centuries</b>	<b>3 Credits</b>
<b>Attributes:</b> CAOT Catholic Studies: Non-Religious Studies, GDAH Graphic Design: Art History, ISIF Italian Studies: Italy-Focused, VPCH Visual and Performing Arts Core: History Course		<b>Attributes:</b> ASGW American Studies: Gateway, ASVP American Studies: Visual and Performing Arts, BSAH Black Studies: Arts and Humanities, BSFC Black Studies Focus Course, GDAH Graphic Design: Art History, UDIV U.S. Diversity, VPCH Visual and Performing Arts Core: History Course	
This course examines the achievements of artists during one of the richest art-historical eras. We trace the rise of artistic giants such as Leonardo da Vinci, Michelangelo, and Raphael and the socio-cultural contexts in which they worked. Innovations of Mannerists such as Pontormo, Bronzino, and Correggio will be considered, as well as the reaction to these artists in the wake of religious reform.		This course explores black art and culture in the twentieth century. We will focus on the artworks themselves and, when possible, the artist's dialogue. Events in United States history such as the emancipation from slavery and the Civil War Era, the Harlem Renaissance, Jazz Age, Great Depression, Civil Rights Movements, AIDS crisis of the 80's, and the Los Angeles race riots of the 90's are used as context to understand black art and culture. While art works created by African-American artists are the primary focus, Cuban and Haitian art and artists are also considered. Throughout the course there is a focus on thinking critically when looking at art as well as how to articulate ideas in writing.	

**AH 0172 History of Photography****3 Credits**

**Attributes:** GDAH Graphic Design: Art History, VPCH Visual and Performing Arts Core: History Course

Students will learn the general historical development of photography from the 1830s to the present day. Concentrating primarily on Europe and the United States, this survey examines some of the themes threaded throughout photography's short history: the interrelationships between photography and other arts, the effect of technology on the medium, identity construction by and through photographs, and the tradition of the popular photograph. Social, cultural, and economic issues are considered as well as important photographers and photographic movements.

Throughout the course there is a focus on thinking critically when looking at a photograph as well as how to articulate ideas in writing.

**AH 0191 Art and Mythologies of Nazi Germany, Fascist Italy, Bolshevik****3 Credits**

**Russia: Comparative Systems & Outcomes**

**3 Credits**

**Attributes:** GDAH Graphic Design: Art History, GMEL German Major or Minor Course, GMEN German Course Taught in English, ISIC Italian Studies: Italy Component, JST Judaic Studies Minor, VPCH Visual and Performing Arts Core: History Course

This interdisciplinary approach to the visual Zeitgeist of these major political/national crises in Europe between 1917 and 1945 surveys the visual rhetoric of Nazi Germany, Fascist Italy, and Bolshevik Russia through the widest possible definition of the visual arts. The course includes the traditional fine arts of painting, sculpture, and architecture as well as the mass cultural outlets of film, radio, propaganda posters, and the staging of public events. The class eliminates the distinctions between high and utilitarian mediums of expression; all means of persuasion are fair game. This course allows students to better understand the complexities of these political/nationalist issues; the "window" is the lens provided by the visual arts and mass media. In doing so, students recognize how the symbolic languages of mythology were married to political ideologies and shaped public opinion from the national consciousness.

**AH 0192 The History, Theory, and Practice of Museums****3 Credits**

**Attributes:** VPCH Visual and Performing Arts Core: History Course

This course focuses on the history and theory of museums, their operations and roles in society and the practical application of museum theory. Students will put the rapidly evolving field of museum studies into a meaningful context while simultaneously gaining a clearer understanding of contemporary industry standards and modes of best professional practice.

**AH 0193 Inside Museums and Galleries: Taste, Place, Public****3 Credits**

**Space**

**Attributes:** VPCH Visual and Performing Arts Core: History Course

This course explores the interactive role of the curator and the museum and gallery visitor in the dynamic cultural spaces of museums, galleries, and public historic spaces, parks, monuments, etc. We explore the responsibilities, ethics, and educational goals for the professional staff of not-for-profit museums in terms of serving the common good of the general public. If museums are "temples of culture," then we need to understand the ways these public "faiths" act while open and engaging for all. In contrast, we highlight the similarities and differences when artworks or collectible objects are placed into a commercialized, for profit-gallery/auction house context. This is an introductory course, welcoming students ready to experience and learn about the rich spectrum of museums, galleries, auction houses, and cultural institutions within the Tri-State area. Field trips include visits with top professionals who share their expertise and experiences.

**AH 0209 The Historic Plaster Cast Collection at Fairfield****University****3 Credits**

**Prerequisite:** One 100-level or lower art history course.

Students will study the history of plaster cast collections in Europe and the U.S. including Fairfield's growing collection. Emphasis will be given to the Fairfield collection by conducting research on the plaster casts. Students will assist with museum and website information. Students will clean and apply light restoration to plaster casts in preparation for their display in different areas on campus. Class visits to the Slater Museum, the Institute for Classical Architecture, and the Metropolitan Museum of Art will be scheduled. Opportunities to visit the Slater Museum, the Institute for Classical Architecture, and the Metropolitan Museum of Art will be scheduled. Consultation with curators and sculptors will provide additional guidance to students.

**AH 0210 Myth in Classical Art****3 Credits**

**Attributes:** VPCH Visual and Performing Arts Core: History Course

**Prerequisite:** One 100-level or lower art history course or permission of the instructor.

Greek and Roman art serve as a rich depository of Greek mythology with a wide range of representations that evolved across the centuries. As a source of information, classical art sometimes preserves myths that are otherwise unknown in the surviving literature. In some cases visual representations date earlier than an extant literary description or differ in the story details. This course focuses on ancient sources, visual and literary, to study the Olympian gods; the heroes, Perseus, Herakles, Theseus, and Odysseus; the Trojan War; and battles such as the gods and giants, Lapiths and Centaurs, and Amazons and Greeks. Students will analyze the appearance of select myths on monuments in the classical world, emphasizing examples in the Metropolitan Museum of Art, the Yale University Art Gallery, and the Historic Plaster Cast Collection at Fairfield.

**AH 0221 The Arts of Ireland and the British Isles, 500-1000****3 Credits**

**Attributes:** CAOT Catholic Studies: Non-Religious Studies, VPCH Visual and Performing Arts Core: History Course

**Prerequisite:** One 100-level or lower art history course or permission of the instructor.

This course explores the art and architecture produced in Ireland, England, and Scotland during the early medieval period, often called the "Golden Age of Insular Art." It was an era of rich cultural exchange during which Irish and continental monks were instrumental in the spread of Christianity throughout the British Isles; Irish settled in Scotland; the Anglo-Saxon kingdom was established in England; and Vikings invaded Ireland and Britain. Arts in all media combined pre-Christian Celtic and Germanic traditions with new Christian forms. Irish monasteries throughout the British Isles were centers of production for sumptuous manuscripts such as the Book of Kells and liturgical vessels including the Ardagh Chalice. Monastic architecture and high crosses will also be considered, as well as secular objects such as aristocratic jewelry.

<b>AH 0222 Byzantine Art</b>	<b>3 Credits</b>	<b>AH 0330 Senior Capstone Seminar</b>	<b>3 Credits</b>
<b>Attributes:</b> CAOT Catholic Studies: Non-Religious Studies, VPCH Visual and Performing Arts Core: History Course		<b>Attributes:</b> VPCH Visual and Performing Arts Core: History Course	
<b>Prerequisite:</b> One 100-level or lower art history course or permission of the instructor.		Required of all art history majors in the spring semester of the senior year, this seminar offers rotating topics that reflect the areas of expertise and research among Fairfield's art history faculty members and culminates in an in-depth research project.	
This course focuses on the art of the medieval Byzantine Empire, a period of strong imperial patronage that saw the rise of Christianity and its associated new forms of art and architecture. The course is organized chronologically, from Byzantine art's late antique Pagan Roman, Early Christian, and Jewish sources to its relationship to Islamic art and its later impact on the development of the arts of Western Europe and Russia. The major themes of the course are: the relationship of belief and ritual to religious imagery and architecture; cultural exchange and influence on art forms and iconography; and the impact of imperial patronage on art and architecture. These themes will also be related to the art of other places and times, including our own. We will explore continuity and change in the content and style of Byzantine Art over time, while constantly being aware of the relationship between art and society.			
<b>AH 0290 Special Topics in Art History</b>	<b>3 Credits</b>	<b>AH 0330A Senior Capstone Seminar</b>	<b>3 Credits</b>
<b>Attributes:</b> VPCH Visual and Performing Arts Core: History Course		<b>Attributes:</b> VPCH Visual and Performing Arts Core: History Course	
<b>Prerequisite:</b> One 100-level or lower art history course or permission of the instructor.		See AH 0330.	
Students conduct an in-depth study of a specific subject in the history of art.			
<b>AH 0292 Museums, Art, Ethics, and the Law</b>	<b>3 Credits</b>	<b>AN 0301 Independent Study</b>	<b>1-3 Credits</b>
<b>Attributes:</b> VPCH Visual and Performing Arts Core: History Course		Students undertake an individualized program of study in consultation with a director from the Asian studies faculty.	
<b>Prerequisite:</b> One 100-level or lower art history course or permission of the instructor.			
This course examines the complex legal and ethical issues surrounding the conception, creation, communication, display, reproduction, ownership, transfer, and protection of works of art. The first unit is devoted to defining "art" and discussing artists' rights. The legal and ethical constraints affecting museums, collectors and the art market generally will be covered in the second unit, while the third unit will grapple with the problematic area of cultural property (with particular emphasis on looting, plunder, identity, trade, reparation, restitution and restitution). In each of these three segments, we shall read and discuss relevant case law, as well as a number of commentaries authored by leading experts in the field.			
<b>AH 0300 Independent Study</b>	<b>1-3 Credits</b>	<b>AN 0310 Asian Studies Seminar</b>	<b>3 Credits</b>
<b>Attributes:</b> VPCH Visual and Performing Arts Core: History Course		This seminar examines selected topics concerning Asia. This course is taught in conjunction with another 100-300 level course from a rotation of course offerings. Consult the Asian Studies director to identify the conjoined course for a given semester. The seminar concentrates on topics within the parameters of the conjoined course syllabus but adds research emphasis. Students registered for this course must complete a research project, to include 300-level research, in addition to the regular research requirements of the conjoined course, and a 25-50 page term paper in substitution of some portion of the conjoined course requirements, as determined by the instructor. Open to juniors and seniors only.	
This in-depth exploration of a specific topic in art history involves students in independent research and field study. Open to students with approval of a faculty member and the director of the Art History program.			
<b>AH 0310 Internship</b>	<b>1-3 Credits</b>	<b>BEN 0201 Biomechanics</b>	<b>3 Credits</b>
<b>Attributes:</b> VPCH Visual and Performing Arts Core: History Course		<b>Prerequisites:</b> MA 0145, PS 0115.	
Internships allow students to gain hands-on experience in fields related to art history through supervised work for galleries, museums, auction houses, and other venues. Internships give students experience in a professional environment, help them to identify possible career paths, and give them skills that they do not acquire in the classroom. Students may apply for on-campus internships at Fairfield's Bellarmine Museum of Art or Thomas J. Walsh Art Gallery, or pursue placement in local or New York City arts institutions. Internships require permission from the Art History program's internship coordinator before registration.		This course covers solid mechanics of bone with a focus on stress, strain, stiffness, and strength. Joint forces and muscle attachments will be analyzed using free-body diagrams. Introductory musculoskeletal physiology will be covered and Biopac Student Lab software will be used for gait and muscle force analysis.	
		<b>BEN 0300 Biomedical Instrumentation</b>	<b>4 Credits</b>
<b>Attributes:</b> HSST Health Studies: Science and Technology		<b>Prerequisites:</b> BI 0107 or BI 0170; EE 0213.	
		Instrumentation and techniques used in acquisition, processing, and presentation of biomedical signals: transducers, sensors, Fourier analysis, flow measurement, biosensors, amplifiers, bridge circuits, and measurement of physical parameters and electrophysiological signals.	
		<b>BEN 0331 Biomedical Signal Processing</b>	<b>3 Credits</b>
<b>Attributes:</b> HSST Health Studies: Science and Technology		<b>Prerequisites:</b> CS 0131 or CS 0142 or SW 0407; MA 0146.	
		This course presents an overview of different methods used in biomedical signal processing. Signals with bioelectric origin are given special attention and their properties and clinical significance are reviewed. In many cases, the methods used for processing and analyzing biomedical signals are derived from a modeling perspective based on statistical signal descriptions. The purpose of the signal processing methods ranges from reduction of noise and artifacts to extraction of clinically significant features. The course gives each participant the opportunity to study the performance of a method on real, biomedical signals.	

**BEN 0332 Biomedical Imaging****3 Credits****Attributes:** HSST Health Studies: Science and Technology**Prerequisite:** BEN 0331 or CR 0331.

This course presents the fundamentals and applications of common medical imaging techniques, for example: x-ray imaging and computed tomography, nuclear medicine, magnetic resonance imaging, ultrasound, and optical imaging. In addition, as a basis for biomedical imaging, introductory material on general image formation concepts and characteristics are presented, including human visual perception and psychophysics.

**BEN 0333 Biomedical Visualization****3 Credits****Prerequisite:** CS 0131.

This course is an introduction to 3-D biomedical visualization. Various technologies are introduced, including UltraSound, MRI, CAT scans, PET scans, etc. Students will learn about spatial data structures, computational geometry and solid modeling with applications in 3-D molecular and anatomical modeling.

**BEN 0390 Bioengineering Design Project I****3 Credits****Prerequisite:** Completion of all non-elective program courses; completion of other program requirements to enable graduation within the year of completion of BEN 0391.

In this capstone course, students work in teams on advanced projects that emphasize engineering design with due attention to design constraints and engineering standards. The overarching scope of this course is to transform engineering students to practicing engineers. Under the guidance of a faculty instructor and a mentor, each team conducts literature searches, write a technical proposal and its members develop skills in information analysis and synthesis; they model and test prototypes of their devices, and make frequent oral and poster presentations of their work to faculty and peers, and submit timely progress reports. In the process, they receive instruction in effective communication and presentation practices, and develop an appreciation of teamwork and collective success. This two-semester course begins in the fall of the academic year and concludes at the end of the spring term with a final team oral presentation and a final written report, and a working prototype of the team's project.

**BEN 0391 Bioengineering Design Project II****3 Credits****Prerequisite:** EG 0390.

In this capstone course, students work in teams on advanced projects that emphasize engineering design with due attention to design constraints and engineering standards. The overarching scope of this course is to transform engineering students to practicing engineers. Under the guidance of a faculty instructor and a mentor, each team conducts literature searches, write a technical proposal and its members develop skills in information analysis and synthesis; they model and test prototypes of their devices, and make frequent oral and poster presentations of their work to faculty and peers, and submit timely progress reports. In the process, they receive instruction in effective communication and presentation practices, and develop an appreciation of teamwork and collective success. This two-semester course begins in the fall of the academic year and concludes at the end of the spring term with a final team oral presentation and a final written report, and a working prototype of the team's project.

## **Biology (BI)**

**BI 0015 Fundamentals of Biology I****3 Credits**

This course, an introductory study of biology for the non-science major, familiarizes students with the general biological principles that govern the activities of all living systems. Concepts include the biochemical origin of life, cellular morphology and physiology, and human genetics. Note: This course counts as a natural science core but does not satisfy requirements for the biology major or minor.

**BI 0016 Fundamentals of Biology II****3 Credits**

Students examine biological systems, such as the human organism, in detail, with an emphasis on pathophysiology, diversity of life, and evolution. Emphasis varies by instructor. Note: This course counts as a natural science core but does not satisfy requirements for the biology major or minor.

**BI 0018 Human Biology: Form and Function****3 Credits****Attributes:** EDCG Educational Studies Cognate, HSST Health Studies: Science and Technology

This course, which provides a basic introduction to human anatomy and physiology, examines the major organ systems of the body, focusing on how each system functions and how all systems interact with one another. Genetics, disease and prevention, nutrition, current issues in public health, and environmental health problems that human populations face are discussed. Note: This course counts as a natural science core but does not satisfy requirements for the biology major or minor.

**BI 0070 Science, Technology, and Society****3 Credits****Attributes:** EDCG Educational Studies Cognate

This course analyzes the major science and technology issues that confront today's society. Through an examination of the underlying science, students gain an understanding of the impact these issues hold for the environment, our natural resources, and our society, including benefit versus hazard expectations. Course issues, which change to incorporate timely topics, include acid rain; agriculture; diseases such as AIDS, cancer, and heart disease; energy; genetic engineering; the greenhouse effect; ozone depletion; and water pollution. Note: This course counts as a natural science core but does not satisfy requirements for the biology major or minor.

**BI 0071 Identity and the Human Genome****3 Credits****Attributes:** BSCC Black Studies Component Course, BSSC Black Studies: Physical and Natural Sciences, WSGF Women, Gender, and Sexuality Studies: Gender Focused

This course introduces human genetics to the non-science major. Topics of discussion include the structure and function of genes, modes of inheritance, gene editing, sex and gender, race, and human genetic diversity. Special emphasis is placed on ethical, legal and social issues related to the knowledge and application of genetic information. Note: This course counts as a natural science core but does not satisfy requirements for the biology major or minor.

<b>BI 0073 Contemporary Nutrition: Food for Thought</b>	<b>3 Credits</b>	<b>BI 0088 Biomedical Science and Society</b>	<b>3 Credits</b>
<b>Attributes:</b> HSST Health Studies: Science and Technology		<b>Attributes:</b> HSST Health Studies: Science and Technology	
This course will introduce non-science majors to the core biological processes of nutrition, and contemporary nutrition concerns related to human growth and well-being throughout life. The course will include material on: food selection and preparation, sensory evaluation, human nutrition, diet analysis, and the relationship between diet and disease. Students will gain the knowledge and skill development necessary to achieve a nutritionally healthy lifestyle. Note: This course counts as a natural science core but does not satisfy requirements for the biology major or minor.		This core science course will engage students in inquiry-based scientific methodology through exploration of specific topics in biomedical science related to human health and disease. The course will explore four biomedical topics. Each topic will include approaches and contributions from chemistry and mathematics, so students appreciate the inherently interdisciplinary nature of science. The course will cover biomedical concepts, quantitative skills, the collection and analysis of data, and guided activities that utilize approaches from all three fields to address biomedical questions. The societal impact and implications of each topic will also be explored.	
<b>BI 0074 Biology of Food</b>	<b>3 Credits</b>	<b>BI 0095 Philosophy and Biology of Evolutionary Theory</b>	<b>3 Credits</b>
<b>Attributes:</b> EVME Environmental Studies Major Elective, EVNS Environmental Studies: Natural Science, EVPE Environmental Studies Elective		This course explores the question of evolutionary theory from the perspectives of philosophy and biology. From the biological perspective, the course focuses on genetics, adaptive evolution, neutral evolution, the genetic impact of selection on populations, the origin and maintenance of genetic variation, the importance of development in evolution, and the expression of variation. From the philosophical perspective, the course focuses on evolution as theory and ideology, the critique of the adaptationist program, evolution and contingency, typological versus population thinking, and the developmental systems critique. Note: This course counts as a natural science core but does not satisfy requirements for the biology major or minor.	
This course will introduce non-science majors to the biological processes behind the food that we produce and harvest as well as the environmental consequences of our diet choices. This course will include material on: the rise of agriculture, plant and animal growth requirements and life cycles, evolution, and a description and discussion of food organisms in the modern North American diet, techniques of food production and effects on the environment. Note: This course counts as a natural science core but does not satisfy requirements for the biology major or minor.			
<b>BI 0075 Ecology and Society</b>	<b>3 Credits</b>	<b>BI 0096 God and Modern Biology</b>	<b>3 Credits</b>
<b>Attributes:</b> EVME Environmental Studies Major Elective, PJST Peace and Justice Studies		<b>Attributes:</b> CAOT Catholic Studies: Non-Religious Studies	
This course focuses on environmental issues raised by modern society's conflicting needs for land, water, a livable environment, and renewable/nonrenewable resources. Students examine the available scientific evidence and are encouraged to draw their own conclusions concerning these environmentally sensitive issues, which are presented in lectures, readings, films, and occasional, off-campus field trips (by arrangement). This course is open to all except biology majors. Note: This course counts as a natural science core but does not satisfy requirements for the biology major or minor.		This course introduces students to the dialogue between science and religion with a detailed consideration of recent advances in modern biological research that raise significant religious, theological, and ethical issues. The course emphasizes developing a practical understanding of the scientific method through interactive experiences and lecture material. Students consider how scientific breakthroughs and ideas can influence or be influenced by religious thought through assigned readings and in-class discussion groups and through the historically significant and most recent findings in the areas of evolution, biotechnology, and the neurosciences. Note: This course counts as a natural science core but does not satisfy requirements for the biology major or minor.	
<b>BI 0076 Environmental Science</b>	<b>3 Credits</b>	<b>BI 0107 Human Anatomy and Physiology I</b>	<b>4 Credits</b>
<b>Attributes:</b> EVME Environmental Studies Major Elective, EVNS Environmental Studies: Natural Science, EVPE Environmental Studies Elective, PJST Peace and Justice Studies		<b>Attributes:</b> HSST Health Studies: Science and Technology	
The science of the environment is presented through examination of the interconnections among physical, chemical, and biological fields of inquiry. This course looks at how the global environment is altered by the human population, technology, and production of fuels and food. In this course, students will acquire a scientific understanding of current issues in environmental science and learn to evaluate claims about current environmental problems. Note: This course counts as a natural science core but does not satisfy requirements for the biology or chemistry major or minor.		<b>Corequisite:</b> BI 0107L.	
		This course is required for nursing majors as a prerequisite for most nursing courses. A strong chemistry background is recommended. Homeostasis is the major theme of the course with form and function covered together each semester. This course introduces the student to anatomical terminology, homeostasis and feedback control, membrane physiology, and tissues followed by the integumentary, skeletal, muscular and nervous systems. Note: This course is not open to biology majors except where required for allied health sciences (chair approval required).	
<b>BI 0078 Introduction to Marine Science</b>	<b>3 Credits</b>	<b>BI 0107L Human Anatomy and Physiology Lab I</b>	<b>0 Credits</b>
<b>Attributes:</b> EVME Environmental Studies Major Elective, EVPE Environmental Studies Elective		<b>Fee:</b> \$60 Science Lab Fee	
This course introduces the non-science major and the marine science minor to the field of oceanography. Topics dealing with the geological, physical, chemical, and biological aspects of science underscore the interdisciplinary nature of world ocean study. Note: This course counts as a natural science core but does not satisfy requirements for the biology major or minor.		<b>Corequisite:</b> BI 0107.	
		Laboratory work closely follows the BI 0107 lecture and includes microscopic anatomy (histology), use of anatomical models, human skeletons, and dissections for study of gross anatomy, and physiology experiments including muscle recruitment measurements, reflex tests and cranial nerve tests.	

<b>BI 0108 Human Anatomy and Physiology II</b>	<b>4 Credits</b>	<b>BI 0201 Biology Teaching Practicum</b>	<b>1 Credit</b>
<b>Attributes:</b> HSST Health Studies: Science and Technology		<b>Prerequisites:</b> BI 0170, BI 0171, BI 0172; successful completion of the assigned laboratory.	
<b>Corequisite:</b> BI 0108L.		This series of courses represents opportunities (up to six semesters) for Biology majors to gain experience in teaching practices in the laboratory as classroom setting. Students will be paired with an instructor, and assist in instruction, grading and overall successful running of a laboratory section. Strong prior performance in the laboratory to which the student will be assigned is required. Selection will be made by the biology department, after a general call is put out to all students who may be interested in the opportunity. Enrollment by permission only.	
<b>Prerequisite:</b> BI 0107.			
This course is required for nursing majors as a prerequisite for most nursing courses. A strong chemistry background is recommended. Homeostasis is the major theme of the course with form and function covered together each semester. This course continues with the endocrine, cardiovascular, lymphatic, respiratory, urinary, digestive, and reproductive systems. Note: This course is not open to biology majors except where required for allied health sciences (chair approval required).			
<b>BI 0108L Human Anatomy and Physiology Lab II</b>	<b>0 Credits</b>	<b>BI 0202 Biology Teaching Practicum</b>	<b>1 Credit</b>
<b>Fee:</b> \$60 Science Lab Fee		<b>Prerequisites:</b> BI 0170, BI 0171, BI 0172; successful completion of the assigned laboratory.	
<b>Corequisite:</b> BI 0108.		This series of courses represents opportunities (up to six semesters) for Biology majors to gain experience in teaching practices in the laboratory as classroom setting. Students will be paired with an instructor, and assist in instruction, grading and overall successful running of a laboratory section. Strong prior performance in the laboratory to which the student will be assigned is required. Selection will be made by the biology department, after a general call is put out to all students who may be interested in the opportunity. Enrollment by permission only.	
Laboratory work closely follows the BI 0108 lecture and includes microscopic anatomy (histology), use of anatomical models and dissections for study of gross anatomy, and physiology experiments including blood pressure measurements, blood typing, lung function, and urinalysis.			
<b>BI 0151 Elements of Microbiology</b>	<b>4 Credits</b>	<b>BI 0203 Biology Teaching Practicum</b>	<b>1 Credit</b>
<b>Prerequisites:</b> BI 0107, CH 0084.		<b>Prerequisites:</b> BI 0170, BI 0171, BI 0172; successful completion of the assigned laboratory.	
This microbiology course for nursing majors examines the structure and function of bacteria, viruses, yeasts, molds, antibiotics, and bacterial genetics as well as the mechanisms of microbial invasion and the body's immunological response. Note: This course is not open to biology majors.		This series of courses represents opportunities (up to six semesters) for Biology majors to gain experience in teaching practices in the laboratory as classroom setting. Students will be paired with an instructor, and assist in instruction, grading and overall successful running of a laboratory section. Strong prior performance in the laboratory to which the student will be assigned is required. Selection will be made by the biology department, after a general call is put out to all students who may be interested in the opportunity. Enrollment by permission only.	
<b>BI 0151L Elements of Microbiology Lab</b>	<b>0 Credits</b>	<b>BI 0204 Biology Teaching Practicum</b>	<b>1 Credit</b>
<b>Fee:</b> \$60 Science Lab Fee		<b>Prerequisites:</b> BI 0170, BI 0171, BI 0172; successful completion of the assigned laboratory.	
<b>BI 0170 General Biology I</b>	<b>4 Credits</b>	<b>Prerequisites:</b> BI 0170, BI 0171, BI 0172; successful completion of the assigned laboratory.	
<b>Attributes:</b> HSST Health Studies: Science and Technology		This series of courses represents opportunities (up to six semesters) for Biology majors to gain experience in teaching practices in the laboratory as classroom setting. Students will be paired with an instructor, and assist in instruction, grading and overall successful running of a laboratory section. Strong prior performance in the laboratory to which the student will be assigned is required. Selection will be made by the biology department, after a general call is put out to all students who may be interested in the opportunity. Enrollment by permission only.	
<b>Corequisites:</b> BI 0170L, BI 0170P.			
This introductory course for biology majors covers the molecular and cellular basis of life, including cell structure and function, cell communication, inheritance, gene expression and regulation, and developmental genetics. Students receive hands-on experience with a broad range of topics and techniques in the accompanying laboratory.			
<b>BI 0170L General Biology I Lab</b>	<b>0 Credits</b>	<b>BI 0205 Biology Teaching Practicum</b>	<b>1 Credit</b>
<b>Fee:</b> \$60 Science Lab Fee		<b>Prerequisites:</b> BI 0170, BI 0171, BI 0172; successful completion of the assigned laboratory.	
<b>BI 0170P General Biology I PLG</b>	<b>0 Credits</b>	<b>Prerequisites:</b> BI 0170, BI 0171, BI 0172; successful completion of the assigned laboratory.	
<b>BI 0171 General Biology II</b>	<b>4 Credits</b>	<b>Prerequisites:</b> BI 0170, BI 0171, BI 0172; successful completion of the assigned laboratory.	
<b>Attributes:</b> HSST Health Studies: Science and Technology		This series of courses represents opportunities (up to six semesters) for Biology majors to gain experience in teaching practices in the laboratory as classroom setting. Students will be paired with an instructor, and assist in instruction, grading and overall successful running of a laboratory section. Strong prior performance in the laboratory to which the student will be assigned is required. Selection will be made by the biology department, after a general call is put out to all students who may be interested in the opportunity. Enrollment by permission only.	
<b>Corequisites:</b> BI 0171L, BI 0171P.			
This introductory course for biology majors covers biochemistry, energy utilization, anatomy and physiology, and the structure and function of plants and animals. Students receive hands-on experience with a broad range of topics and techniques in the accompanying laboratory.			
<b>BI 0171L General Biology II Lab</b>	<b>0 Credits</b>	<b>Prerequisites:</b> BI 0170, BI 0171, BI 0172; successful completion of the assigned laboratory.	
<b>Fee:</b> \$60 Science Lab Fee		This series of courses represents opportunities (up to six semesters) for Biology majors to gain experience in teaching practices in the laboratory as classroom setting. Students will be paired with an instructor, and assist in instruction, grading and overall successful running of a laboratory section. Strong prior performance in the laboratory to which the student will be assigned is required. Selection will be made by the biology department, after a general call is put out to all students who may be interested in the opportunity. Enrollment by permission only.	
<b>BI 0171P General Biology II PLG</b>	<b>0 Credits</b>	<b>Prerequisites:</b> BI 0170, BI 0171, BI 0172; successful completion of the assigned laboratory.	
<b>BI 0172 General Biology III</b>	<b>4 Credits</b>	<b>Prerequisites:</b> BI 0170, BI 0171, BI 0172; successful completion of the assigned laboratory.	
<b>Corequisite:</b> BI 0172L.		This series of courses represents opportunities (up to six semesters) for Biology majors to gain experience in teaching practices in the laboratory as classroom setting. Students will be paired with an instructor, and assist in instruction, grading and overall successful running of a laboratory section. Strong prior performance in the laboratory to which the student will be assigned is required. Selection will be made by the biology department, after a general call is put out to all students who may be interested in the opportunity. Enrollment by permission only.	
This introductory course for biology majors covers organismal biology with an emphasis on evolution, biological diversity, ecology, and environmental science. Students receive hands-on experience with a broad range of topics and techniques in the accompanying laboratory.			
<b>BI 0172L General Biology III Lab</b>	<b>0 Credits</b>		
<b>Fee:</b> \$60 Science Lab Fee			

<b>BI 0206 Biology Teaching Practicum</b>	<b>1 Credit</b>	<b>BI 0260 Ecology</b>	<b>4 Credits</b>
<b>Prerequisites:</b> BI 0170, BI 0171, BI 0172; successful completion of the assigned laboratory.		<b>Attributes:</b> EDCG Educational Studies Cognate, EVME Environmental Studies Major Elective, EVNS Environmental Studies: Natural Science, EVPE Environmental Studies Elective	
This series of courses represents opportunities (up to six semesters) for Biology majors to gain experience in teaching practices in the laboratory as classroom setting. Students will be paired with an instructor, and assist in instruction, grading and overall successful running of a laboratory section. Strong prior performance in the laboratory to which the student will be assigned is required. Selection will be made by the biology department, after a general call is put out to all students who may be interested in the opportunity. Enrollment by permission only.		<b>Corequisite:</b> BI 0260L.	
<b>BI 0216 Introductory Principles of Epidemiology</b>	<b>3 Credits</b>	<b>Prerequisites:</b> BI 0170, BI 0171, BI 0172, CH 0111, CH 0112.	
<b>Prerequisite:</b> BI 0108 or BI 0171.		This course is designed as an overview of the science of ecology - the study of interactions between organisms and their environment. This course uses a hierarchical approach to describe organisms, populations, communities, and ecosystems. We discuss the types of questions ecologists ask, and the methods ecologists use to answer questions.	
Epidemiology is the foundation for public health research, with applications in several other disciplines. This course is designed to introduce students to the core principles of epidemiology, and familiarize students with the applications of biostatistics in health research. During the course, students will learn about the historical origins of the field of epidemiology, as well as concepts for study design and data interpretation.		<b>BI 0260L Ecology Lab</b>	<b>0 Credits</b>
<b>BI 0218 Vertebrate Zoology</b>	<b>3 Credits</b>	<b>Fee:</b> \$60 Science Lab Fee	
<b>Attributes:</b> EVME Environmental Studies Major Elective, EVNS Environmental Studies: Natural Science, EVPE Environmental Studies Elective		<b>BI 0261 Genetics</b>	<b>4 Credits</b>
<b>Prerequisites:</b> BI 0170, BI 0171, BI 0172.		<b>Attributes:</b> EDCG Educational Studies Cognate	
Fish, frogs, flamingoes and ferrets. What unites them? A backbone. This course addresses how these very diverse groups of animals actually relate and differ - in physiology, morphology and behavior. Students will discuss the advantages and disadvantages of being a member of each group, and compare across groups the things that set these groups apart from each other. The course will consist of group discussions based on the required reading in the text, supplemented extensively by direct examples (preserved and live specimens, tissues and samples) showing how the diversity of vertebrates makes them an incredibly interesting group. Formerly BI 0318.		<b>Corequisite:</b> BI 0261L.	
<b>BI 0218L Vertebrate Zoology Lab</b>	<b>1 Credit</b>	<b>Prerequisites:</b> BI 0170, BI 0171, BI 0172.	
<b>Fee:</b> \$60 Science Lab Fee		This course offers a comprehensive study of the fundamental principles of classical and molecular genetics. Major topics include transmission (Mendelian) genetics, gene linkage and mapping, fundamentals of molecular biology, molecular approaches to genetic analysis, genetic engineering and recombinant DNA technology, microbial genetics, regulation of gene expression, and genomics.	
<b>Prerequisite:</b> BI 0218*.		<b>BI 0261L Genetics Lab</b>	<b>0 Credits</b>
This lab focuses on the development of a vertebrate research project at the Connecticut's Beardsley Zoo, which currently houses over 130 species of animals, a number of which are currently listed as endangered. As a participant in the Species Survival Plan (SSP) program, the zoo's mission is to promote the preservation of such endangered species as well as provide the best possible enclosures for many of the zoo's other residents. You will be engaged in the design, execution, analysis and presentation of research, which will ultimately be used by the Connecticut's Beardsley Zoo to enhance their care and protection of vertebrates. (*indicates concurrency allowed)		<b>Fee:</b> \$60 Science Lab Fee	
<b>BI 0251 Human Nutrition</b>	<b>3 Credits</b>	<b>BI 0262 Human Physiology</b>	<b>4 Credits</b>
<b>Attributes:</b> HSST Health Studies: Science and Technology		<b>Corequisite:</b> BI 0262L.	
<b>Prerequisites:</b> BI 0107 and BI 0108 or BI 0170, BI 0171, and BI 0172.		<b>Prerequisites:</b> BI 0170, BI 0171, BI 0172, CH 0111, CH 0112.	
This course offers a comprehensive study of the fundamental principles of human nutrition. The course emphasizes the role diet plays in the prevention of disease and promotion of health. Students will integrate the fundamentals of digestion, absorption, and metabolism as they apply to nutrient intake. Major topics include: weight management as it relates to the physiology, metabolism, and behavioral psychology of energy balance; the nutritional needs of humans at various stages of the life cycle; how scientific evidence has shaped the current dietary guidelines and the food environment.		This course considers homeostasis in humans by means of a comprehensive survey of the morphology and physiology of human organ systems. Special emphasis is given to organ systems associated with water and electrolyte balance, respiration, digestion, movement, and neurological control.	
<b>BI 0296 Special Topics in Biology</b>		<b>BI 0262L Human Physiology Lab</b>	<b>0 Credits</b>
<b>Attributes:</b> HSST Health Studies: Science and Technology		<b>Fee:</b> \$60 Science Lab Fee	
<b>Prerequisites:</b> BI 0107 and BI 0108 or BI 0170, BI 0171, and BI 0172.		<b>BI 0296 Special Topics in Biology</b>	<b>3 Credits</b>
This course requires library research and the writing of a scholarly paper on a special topic. Students discuss topics with and must obtain consent from an appropriate professor prior to registration.		<b>Attributes:</b> HSST Health Studies: Science and Technology, UDIV U.S. Diversity	
<b>BI 0310 Community Nutrition</b>		<b>Corequisite:</b> BI 0310L.	
<b>Attributes:</b> HSST Health Studies: Science and Technology		<b>Prerequisites:</b> BI 0107 and BI 0108 or BI 0170, BI 0171, and BI 0172.	
<b>Prerequisites:</b> BI 0107 and BI 0108 or BI 0170, BI 0171, and BI 0172.		This course will introduce students to the fundamental applications of nutrition in a public health setting. Students will learn the theory behind health behavior change, community assessment, intervention planning, and program management. Students will also have an opportunity to practice the skills necessary to carry out these activities through laboratory exercises, in-class activities and assignments. During the course, students will create a nutrition brochure, conduct a focus group, and produce a video Public Service Announcement. By the end of this course, students will have a deeper understanding of how public health professionals identify nutritional risk in the community, and design programs to prevent the development of disease. This course satisfies Core II elective requirements for the Biology major or minor.	
This course offers a comprehensive study of the fundamental principles of human nutrition. The course emphasizes the role diet plays in the prevention of disease and promotion of health. Students will integrate the fundamentals of digestion, absorption, and metabolism as they apply to nutrient intake. Major topics include: weight management as it relates to the physiology, metabolism, and behavioral psychology of energy balance; the nutritional needs of humans at various stages of the life cycle; how scientific evidence has shaped the current dietary guidelines and the food environment.		<b>BI 0310L Community Nutrition Lab</b>	<b>0 Credits</b>
<b>Fee:</b> \$60 Science Lab Fee		<b>Fee:</b> \$60 Science Lab Fee	

<b>BI 0314 Endocrinology</b>	<b>3 Credits</b>	<b>BI 0324 Biochemistry I</b>	<b>3 Credits</b>
<b>Prerequisites:</b> BI 0170, BI 0171, BI 0172, CH 0111, CH 0112, CH 0211.		<b>Prerequisite:</b> CH 0212.	
This course examines the glands of internal secretion and their location, anatomy, and function, including the mechanisms of their secretions and cell signaling importance in the regulation of body functions.		This course will investigate the fundamentals of life - chemistry. The structures and functions of biomolecules, including proteins, DNA, RNA, lipids, and carbohydrates will be covered in depth. The concepts behind biological processes will be discussed, including enzyme kinetics and regulatory strategies, membrane functions, signal transduction, and an overview of metabolism.	
<b>BI 0315 Anatomy: Form and Function</b>	<b>3 Credits</b>	<b>BI 0324L Biochemistry Lab</b>	<b>1 Credit</b>
<b>Prerequisites:</b> BI 0170, BI 0171, BI 0172.		<b>Fee:</b> \$60 Science Lab Fee	
This course examines the anatomy of animals emphasizing the functional and evolutionary diversity of vertebrates. The course will consist of lectures focused on morphological variation and evolution, readings of the primary literature and anatomical dissections of comparative structures.		<b>Corequisite:</b> BI 0324 or BI 0325 or CH 0324 or CH 0325.	
<b>BI 0317 Biostatistics for Health Research</b>	<b>3 Credits</b>	This course will investigate classic and most current methodology used in biochemistry. A semester project will be used to introduce techniques used in biochemistry to investigate the structure and function of a protein. In characterizing this protein, the analysis of DNA, lipids and carbohydrates will also be covered.	
<b>Attributes:</b> HSST Health Studies: Science and Technology		<b>BI 0325 Biochemistry II</b>	<b>3 Credits</b>
<b>Corequisite:</b> BI 0317L.		<b>Prerequisites:</b> CH 0211, CH 0212.	
<b>Prerequisites:</b> BI 0108 or BI 0171; MA 0217.		This course focuses on the regulation of metabolic pathways involved in the synthesis, breakdown, and interconversion of biochemical intermediates that are fundamental to all life. Basic principles of biological thermodynamics will be highlighted in order to understand the processes by which living cells obtain and utilize energy. Students will develop an understanding of basic biomedical principles in the context of overall cell function. This course cannot be taken as a biology block elective if BI 0330 has been taken previously.	
<b>BI 0317L Biostatistics for Health Research Lab</b>	<b>1 Credit</b>	<b>BI 0325L Biochemistry Lab</b>	<b>1 Credit</b>
<b>Fee:</b> \$60 Science Lab Fee		<b>Fee:</b> \$60 Science Lab Fee	
<b>BI 0319 Zoology Field Experience</b>	<b>3 Credits</b>	<b>Corequisite:</b> BI 0324 or BI 0325 or CH 0324 or CH 0325.	
<b>Attributes:</b> EVME Environmental Studies Major Elective, EVNS Environmental Studies: Natural Science, EVPE Environmental Studies Elective, LCEL LACS Minor: Elective		This course will investigate classic and most current methodology used in biochemistry. A semester project will be used to introduce techniques used in biochemistry to investigate the structure and function of a protein. In characterizing this protein, the analysis of DNA, lipids and carbohydrates will also be covered.	
<b>Prerequisite:</b> BI 0218 or BI 0365.		<b>BI 0327 Cell Biology</b>	<b>4 Credits</b>
As a supplement to BI 0218 or BI 0365, students will take part in an exciting field-trip experience to Brazil, where they will interact directly with research biologists doing field experiments in the Atlantic Coastal Rainforest and surrounding ecosystems of Brazil. While in Brazil, students will work in the field collecting data on a particular specialized topic, and work closely with the Brazil research team in analyzing and presenting these data in a scientifically appropriate format. Upon return to Fairfield, the semester will be spent perfecting techniques in data organization, analysis and presentation including a formal paper, poster and/or talk. Enrollment by permission only.		<b>Attributes:</b> EDCG Educational Studies Cognate	
<b>BI 0319L Zoology Field Experience Lab</b>	<b>3 Credits</b>	<b>Corequisite:</b> BI 0327L.	
<b>Attributes:</b> EVME Environmental Studies Major Elective, EVNS Environmental Studies: Natural Science		<b>Prerequisites:</b> BI 0170, BI 0171, BI 0172, CH 0211, CH 0212.	
<b>Fee:</b> \$60 Science Lab Fee		This course focuses on the structure and function of eukaryotic cells. Students explore the relationship between gene expression and protein synthesis, and discuss how different proteins coordinate a complex array of important biological tasks in the cell. The course covers the biochemical interactions that occur within and between cells that sustain viability and mediate cell communication. Topics include gene expression and protein production, enzyme structure/function, protein to protein interactions, cytoskeleton and extracellular matrix, mechanisms of transport, signal transduction, cell cycle, and apoptosis. Laboratories include analysis of cell morphology, RNA and protein expression, and assays to study the growth, differentiation, and death of eukaryotic cells in response to their environment.	
<b>Prerequisite:</b> BI 0218 or BI 0365.		<b>BI 0327L Cell Biology Lab</b>	<b>0 Credits</b>
As a supplement to BI 0218 or BI 0365, students will take part in an exciting field-trip experience to Brazil, where they will interact directly with research biologists doing field experiments in the Atlantic Coastal Rainforest and surrounding ecosystems of Brazil. While in Brazil, students will work in the field collecting data on a particular specialized topic, and work closely with the Brazil research team in analyzing and presenting these data in a scientifically appropriate format. Upon return to Fairfield, the semester will be spent perfecting techniques in data organization, analysis and presentation including a formal paper, poster and/or talk. Enrollment by permission only.		<b>Fee:</b> \$60 Science Lab Fee	

<b>BI 0330 Nutrient Metabolism</b>	<b>3 Credits</b>	<b>BI 0357 General Virology</b>	<b>3 Credits</b>
<b>Prerequisites:</b> BI 0170, BI 0171, BI 0172, CH 0111, CH 0112, CH 0211, CH 0212.		<b>Prerequisites:</b> BI 0170, BI 0171.	
This course is designed to provide students with an in-depth understanding of nutrient metabolism in humans. This course will examine the digestion, absorption, and metabolism of macronutrients: carbohydrate, lipid and protein, in addition to the essential biological functions of vitamins and minerals. The emphasis of this course will be on the interrelationship and control of nutrient utilization by various organ systems in the body, building upon principles of human physiology and biochemistry. This course cannot be taken as a biology block elective if BI 0325 lecture has been taken previously.		This introductory course covers the field of virology, with a special emphasis on animal viruses. Coverage centers on the physical, biochemical, and biological aspects of bacteriophages and animal viruses. Discussion stresses viral morphology; replication and assembly; pathogenesis of viral infections; and the epidemiology, prevention, and control of viral diseases.	
<b>BI 0342 Developmental Biology</b>	<b>4 Credits</b>	<b>BI 0362 Marine Invertebrate Zoology</b>	<b>4 Credits</b>
<b>Attributes:</b> EDCG Educational Studies Cognate		<b>Attributes:</b> EDCG Educational Studies Cognate	
<b>Corequisite:</b> BI 0342L.		<b>Corequisite:</b> BI 0362L.	
<b>Prerequisites:</b> BI 0170, BI 0171, BI 0172.		<b>Prerequisites:</b> BI 0170, BI 0171, BI 0172.	
This course explores how the transition from a single-celled, fertilized egg to a multicellular animal is accomplished, emphasizing the dynamic interactions that occur on the molecular level to tightly control developmental processes. Topics include mechanisms of cell fate and differentiation, the molecular basis of differential gene expression, analysis of the molecular cues regulating body axis formation, and the development of various specific structures in different experimental organisms. The laboratory for the course consists of experiments that focus on the influence of gene function on development. We will do experiments that allow us to observe expression patterns of important genes in development and we will study the effects of perturbing gene function during development.		Students study the phylogeny, ecology, morphology, and physiology of the major marine invertebrate groups with emphasis on local fauna. The laboratory component includes field trips to various habitats in Long Island Sound to collect specimens for identification and study.	
<b>BI 0342L Developmental Biology Lab</b>	<b>0 Credits</b>	<b>BI 0362L Marine Invertebrate Zoology Lab</b>	<b>0 Credits</b>
<b>Fee:</b> \$60 Science Lab Fee		<b>Fee:</b> \$60 Science Lab Fee	
<b>BI 0352 Fundamentals of Microbiology</b>	<b>4 Credits</b>	<b>BI 0364 Freshwater Ecology</b>	<b>4 Credits</b>
<b>Attributes:</b> EDCG Educational Studies Cognate		<b>Attributes:</b> EDCG Educational Studies Cognate, EVME Environmental Studies Major Elective, EVNS Environmental Studies: Natural Science, EVPE Environmental Studies Elective	
<b>Corequisite:</b> BI 0352L.		<b>Corequisite:</b> BI 0364L.	
<b>Prerequisites:</b> BI 0170, BI 0171, BI 0172, BI 0261, CH 0211, CH 0212.		<b>Prerequisites:</b> BI 0170, BI 0171, BI 0172.	
This comprehensive introduction to microbiology includes microbial cell structure, physiology, genetics, evolution and taxonomy, diversity, ecology, and applied microbiology. Lab sessions introduce microbiological techniques (aseptic technique, microscopy, bacterial staining, culture techniques), and other research methods. Students use skills acquired in the lab to design and conduct independent investigations.		Students learn the applied and theoretical concepts of the field of ecology using examples from freshwater aquatic systems. In the laboratory, students learn the major groups of organisms present in aquatic systems and conduct experiments involving ecological concepts such as predation and competition.	
<b>BI 0352L Fundamentals of Microbiology Lab</b>	<b>0 Credits</b>	<b>BI 0364L Freshwater Ecology Lab</b>	<b>0 Credits</b>
<b>Fee:</b> \$60 Science Lab Fee		<b>Fee:</b> \$60 Science Lab Fee	
<b>BI 0354 Molecular Biology</b>	<b>3 Credits</b>	<b>BI 0365 Evolutionary Biology</b>	<b>4 Credits</b>
<b>Prerequisites:</b> BI 0170, BI 0171, CH 0211, CH 0212.		<b>Attributes:</b> EDCG Educational Studies Cognate	
This introduction to molecular biology examines protein structure, DNA structure, RNA structure, the roles of DNA and RNA in protein synthesis, and the replication and repair of DNA and RNA in eukaryotic and prokaryotic cells. Relates the effects of mutations to DNA, RNA, and proteins.		<b>Corequisite:</b> BI 0365L.	
		<b>Prerequisites:</b> BI 0170, BI 0171, BI 0172.	
		The course begins with an examination of the intellectual origins of biological thought and includes a study of the historical factors that contributed to Charles Darwin's development of the theory of evolution. Topics include the evidence for evolution, the forces affecting evolution (e.g., mutation, migration, genetic drift, and selection), and natural selection as the basis of adaptation, as well as the philosophical and practical aspects of defining species and reconstructing phylogenetic relationships. Students critique (individually and in groups) current papers in evolutionary biology on topics such as punctuated equilibrium theory, Darwinian medicine, human origins, co-evolutionary arms races, systematics and biodiversity, and the evolution of sex.	
<b>BI 0356 Immunology</b>	<b>3 Credits</b>	<b>BI 0365L Evolutionary Biology Lab</b>	<b>0 Credits</b>
<b>Prerequisites:</b> BI 0170, BI 0171, CH 0211, CH 0212.		<b>Fee:</b> \$60 Science Lab Fee	
This introduction to immunology covers the humoral and cellular basis of immune response, emphasizing antigens, the structure and function of immunoglobulins, antibody formation, and living/experimental manifestations of the immune response.			

**BI 0366 Ornithology**

**Attributes:** EDCG Educational Studies Cognate, EVME Environmental Studies Major Elective, EVNS Environmental Studies: Natural Science, EVPE Environmental Studies Elective

**Corequisite:** BI 0366L.

**Prerequisites:** BI 0170, BI 0171, BI 0172.

This upper-level lecture, laboratory, and field course on avian biology has an emphasis on ecology and evolution. The course familiarizes students with the staggering diversity of birds and the adaptations that have contributed to their success. Laboratory activities include: 1) a multi-week student investigation of avian diversity of form and function, and 2) a series of field trips that emphasize unique adaptations and means of identification of birds found in Connecticut.

**BI 0366L Ornithology Lab**

**0 Credits**

**Fee:** \$60 Science Lab Fee

**BI 0372 Environmental Toxicology**

**4 Credits**

**Attributes:** EVME Environmental Studies Major Elective, EVPE Environmental Studies Elective

**Corequisite:** BI 0372L.

Environmental toxicology is the study of the nature, properties, effects and detection of toxic substances in the environment and in any environmentally exposed species, including humans. Fundamental toxicological concepts will be covered including dose-response relationships, absorption of toxicants, distribution and storage of toxicants, biotransformation and elimination of toxicants, target organ toxicity, teratogenesis, mutagenesis, carcinogenesis, and risk assessment. The course will include an overview of chemodynamics of contaminants in the environment including fate and transport. The effects of these contaminants will then be explored on a series of scales: the molecular level (biochemical pathways of metabolism and detoxification); the organismal level (target organs, behavioral effects); and the ecosystem level (nutrient cycling and ecosystem services).

BI 0170, BI 0171, BI 0172, CH 0211, CH 0212.

**BI 0372L Environmental Toxicology Lab**

**0 Credits**

**Fee:** \$60 Science Lab Fee

**BI 0391 Biology Research I**

**1-3 Credits**

This course requires a research thesis involving laboratory investigation. Seniors and qualified juniors obtain the consent of the professor supervising their research interest area prior to registering for this program. Past topics include aquatic ecology, bacterial ecology and physiology, biochemistry, cell-wall biosynthesis, evolution of marine invertebrates, genetic regulation of animal development, mammalian physiology, plant biostimulants, plant/insect ecology, population and disease dynamics of shellfish, and signal transduction/gene regulations.

**BI 0392 Biology Research II**

**1-3 Credits**

This course requires a research thesis involving laboratory investigation. Seniors and qualified juniors obtain the consent of the professor supervising their research interest area prior to registering for this program. Past topics include aquatic ecology, bacterial ecology and physiology, biochemistry, cell-wall biosynthesis, evolution of marine invertebrates, genetic regulation of animal development, mammalian physiology, plant biostimulants, plant/insect ecology, population and disease dynamics of shellfish, and signal transduction/gene regulations.

**BI 0393 Biology Research III**

**1-3 Credits**

This course requires a research thesis involving laboratory investigation. Seniors and qualified juniors obtain the consent of the professor supervising their research interest area prior to registering for this program. Past topics include aquatic ecology, bacterial ecology and physiology, biochemistry, cell-wall biosynthesis, evolution of marine invertebrates, genetic regulation of animal development, mammalian physiology, plant biostimulants, plant/insect ecology, population and disease dynamics of shellfish, and signal transduction/gene regulations.

**BI 0394 Biology Research IV**

**1-3 Credits**

This course requires a research thesis involving laboratory investigation. Seniors and qualified juniors obtain the consent of the professor supervising their research interest area prior to registering for this program. Past topics include aquatic ecology, bacterial ecology and physiology, biochemistry, cell-wall biosynthesis, evolution of marine invertebrates, genetic regulation of animal development, mammalian physiology, plant biostimulants, plant/insect ecology, population and disease dynamics of shellfish, and signal transduction/gene regulations.

**BI 0395 Biology Research V**

**1-3 Credits**

This course requires a research thesis involving laboratory investigation. Seniors and qualified juniors obtain the consent of the professor supervising their research interest area prior to registering for this program. Past topics include aquatic ecology, bacterial ecology and physiology, biochemistry, cell-wall biosynthesis, evolution of marine invertebrates, genetic regulation of animal development, mammalian physiology, plant biostimulants, plant/insect ecology, population and disease dynamics of shellfish, and signal transduction/gene regulations.

**BI 0396 Biology Research VI**

**1-3 Credits**

This course requires a research thesis involving laboratory investigation. Seniors and qualified juniors obtain the consent of the professor supervising their research interest area prior to registering for this program. Past topics include aquatic ecology, bacterial ecology and physiology, biochemistry, cell-wall biosynthesis, evolution of marine invertebrates, genetic regulation of animal development, mammalian physiology, plant biostimulants, plant/insect ecology, population and disease dynamics of shellfish, and signal transduction/gene regulations.

**BI 0397 Internship**

**1-3 Credits**

Available for junior and senior biology majors in good academic standing. Internships are available, subject to individual arrangement, for students interested in allied health, environmental science, marine science, medicine, dentistry, biotechnology, and emergency medicine. Students provide their own transportation and must discuss their internships with the department chair and obtain consent of the supervising professor prior to registering for this course.

**BI 0398 Internship**

**1-3 Credits**

Available for junior and senior biology majors in good academic standing. Internships are available, subject to individual arrangement, for students interested in allied health, environmental science, marine science, medicine, dentistry, biotechnology, and emergency medicine. Students provide their own transportation and must discuss their internships with the department chair and obtain consent of the supervising professor prior to registering for this course.

<b>BI 0399 Capstone Seminar (Shell)</b>	<b>3 Credits</b>	<b>BI 0399D Senior Capstone Seminar: Nutritional Epigenetics</b>	<b>3 Credits</b>
During the capstone experience, students connect the diverse experience and knowledge they have acquired as biology majors, focusing these skills on examining in depth, a specific topic. In a small class setting (10-12 students maximum), students and the professor delve deeply into the chosen topic, assessing the peer-reviewed literature and most current trends around the particular subject. Students bring their breadth of knowledge to the discussion, and apply what they have learned over the course of their academic training to critically analyze the arguments and experiments presented in the literature. In most cases, students will be responsible for presenting a paper to the class, driving the content of discussion and debate with their fellow students and instructor. The capstone is a reading extensive experience, and, by definition, shows that the biology major is able to synthesize and apply their knowledge to examine interesting questions. To maximize the value of the capstone experience, students enroll in an upper-level seminar course during their senior year. See BI 0399A, BI 0399B, BI 0399C, BI 0399D, BI 0399E, BI 0399F, BI 0399G, BI 0399H, BI 0399I, BI 0399J, BI 0399K.		This seminar will cover emerging topics in nutritional epigenetics - the mechanisms by which nutrients regulate gene expression. Emphasis will be placed on genes regulated by essential dietary compounds (e.g. carbohydrates, lipids, vitamins and minerals) within the context of conditions such as cardiovascular disease, diabetes and cancer. Students will analyze and present scientific literature and write a grant proposal. Formerly BI 0381D.	
<b>BI 0399A Senior Capstone Seminar: Biology of Cancer</b>	<b>3 Credits</b>	<b>BI 0399E Senior Capstone Seminar: Reproductive Tactics</b>	<b>3 Credits</b>
<b>Attributes:</b> BICP Biology Major Capstone Course		<b>Attributes:</b> BICP Biology Major Capstone Course	
<b>Prerequisites:</b> BI 0170, BI 0171, BI 0172, one course from the Molecular Block, senior standing.		<b>Prerequisites:</b> BI 0170, BI 0171, BI 0172, one course from the Physiology Block, senior standing.	
This seminar requires students to draw on nearly all of their training as biology majors to understand the disease of cancer in great detail. Topics include the genetic/cellular basis for the disease, physiological effects of tumor progression and metastasis, environmental influences, treatment modalities, and the personal, familial and societal impacts of the disease. Students read extensively for the course and summarize and formally present current research in the field in an effort to develop their scientific communication skills. Numerous short reviews of research articles are also produced by students. Formerly BI 0381A.		This seminar explores the ways animals have evolved creative mechanisms, physiological and behavioral, to maximize their reproductive success. Topics will include mate choice and sexual conflict, paternity, variability in reproductive anatomy, mechanisms for successful fertilization, sperm competition and sperm choice. Course format: A reading extensive course. Students will read from a source text for foundation ideas, then will each find and present to the entire class, scientific research papers from the primary literature. Formerly BI 0382A.	
<b>BI 0399B Senior Capstone Seminar: Molecular Mechanisms of Human Disease</b>	<b>3 Credits</b>	<b>BI 0399F Senior Capstone Seminar: Coral Reef Ecology</b>	<b>3 Credits</b>
<b>Attributes:</b> BICP Biology Major Capstone Course		<b>Attributes:</b> BICP Biology Major Capstone Course, EVME Environmental Studies Major Elective	
<b>Prerequisites:</b> BI 0170, BI 0171, BI 0172, one course from the Molecular Block, senior standing.		<b>Prerequisites:</b> BI 0170, BI 0171, BI 0172, one course from the Ecology Block, senior standing.	
This seminar covers the molecular and cellular events that underlie complex human diseases. Students learn to critically analyze and interpret primary literature on the molecular aspects of such diseases as cancer, diabetes, heart disease, Alzheimer's, and AIDS. Students summarize and present selected articles at each meeting and use these acquired skills to investigate a particular topic of their choice in the form of a grant proposal for their final project. Formerly BI 0381B.		Students study the complex ecological relationships found in coral reef ecosystems. Topics include discussions of reef development, coral symbiosis and growth, reef trophic dynamics, ecology and behavior of coral reef fish and invertebrates, and effects of natural and human disturbance on coral reef communities. Course format: seminar in which students read, analyze, and present scientific research papers from the primary literature. Formerly BI 0383A.	
<b>BI 0399C Senior Capstone Seminar: Bacterial Pathogenesis</b>	<b>3 Credits</b>	<b>BI 0399G Senior Capstone Seminar: Ecology of the North Atlantic Coast</b>	<b>3 Credits</b>
<b>Attributes:</b> BICP Biology Major Capstone Course		<b>Attributes:</b> BICP Biology Major Capstone Course	
<b>Prerequisites:</b> BI 0170, BI 0171, BI 0172, one course from the Molecular Block, senior standing.		<b>Prerequisites:</b> BI 0170, BI 0171, BI 0172, one course from the Ecology Block, senior standing.	
This seminar examines the role of prokaryotes in disease, with an emphasis on the genetics and physiology of disease mechanisms. Topics include aspects of the human immune response, host-parasite relationships, and the epidemiology and evolution of infectious disease. Formerly BI 0381C.		This seminar examines the processes that generate ecological patterns in North Atlantic coastal ecosystems with a focus on the ecology of salt marshes, tidal rivers, sandy beaches, and rocky shores, and the human impact on these systems. The course centers on student-led discussions of readings from scientific literature. Formerly BI 0383B.	
<b>BI 0399H Senior Capstone Seminar: Principles of Aquaculture</b>	<b>3 Credits</b>		
<b>Attributes:</b> BICP Biology Major Capstone Course		<b>Attributes:</b> BICP Biology Major Capstone Course	
<b>Prerequisites:</b> BI 0170, BI 0171, BI 0172, one course from the Ecology Block, senior standing.		<b>Prerequisites:</b> BI 0170, BI 0171, BI 0172, one course from the Ecology Block, senior standing.	
		This seminar introduces students to the rapidly-growing science of aquaculture or fish farming. Using a comprehensive approach, the course includes discussions of the following topics: historical development, culture and rearing techniques, diseases, regulations, and permitting and marketing of aquatic plants and animals. Course format: seminar in which students read, analyze, and present scientific and technical papers from the primary literature. Field trips to nearby aquaculture facilities may be included. Formerly BI 0383C.	

**BI 0399I Senior Capstone Seminar: Topics in Evolutionary Biology** 3 Credits

**Attributes:** BICP Biology Major Capstone Course

**Prerequisites:** BI 0170, BI 0171, BI 0172, one course from the Ecology Block, senior standing.

Evolution is the theme that unites all fields of biology. The broad objective of this course is to encourage students to integrate all the knowledge they have acquired as a biology major to critically interpret and analyze questions from an evolutionary perspective. In this seminar, we will read and discuss the current literature on major evolutionary topics, which have revolutionized the way in which we think about genomics, sex and reproduction, and our own human beginnings. We will also address important contemporary but controversial topics such as evolutionary medicine and evolutionary psychology. The course centers on student led discussions, presentations and literature critiques. Formerly BI 0383D.

**BI 0399J Senior Capstone Seminar: Pathophysiology of Bone and Cartilage** 3 Credits

**Attributes:** BICP Biology Major Capstone Course

**Prerequisites:** BI 0170, BI 0171, BI 0172, one course from the Physiology Block, senior standing.

This seminar will focus on the biochemistry and physiology of human bone and cartilage. Emphasis will be placed on the normal development and healing of these tissues along with an introduction to common skeletal tissue disorders such as osteoporosis and arthritis. Students will be expected to analyze and present scientific literature while integrating the material with basic knowledge acquired from previous courses.

**BI 0399K Senior Capstone Seminar: Ichthyology** 3 Credits

**Attributes:** BICP Biology Major Capstone Course

**Prerequisites:** BI 0170, BI 0171, BI 0172, one course from the Physiology Block, senior standing.

This seminar will explore the diversity of fishes, the largest group of vertebrates. Topics for discussion will include feeding, locomotion, metabolism, and sensory systems of fishes. Students will analyze and present scientific literature and write a grant proposal.

## Black Studies (BL)

**BL 0101 Black Lives Matter** 3 Credits

**Attributes:** ASGW American Studies: Gateway, BSFC Black Studies Focus Course, BSSS Black Studies: Social and Behavioral Sciences, PJST Peace and Justice Studies, UDIV U.S. Diversity

In the context of Ferguson, Charleston, and other national crises, this course responds to the call of students from our campus community to raise questions about and critically reflect upon the failures of democracy to recognize the value of Black Life. This course employs collective thinking, teaching, and research to focus on questions surrounding race, structural inequality, and violence. It examines the historical, geographical, cultural, social, and political ways in which race has been configured and deployed in the United States. Various faculty will bring to bear their respective scholarly lenses so that students understand race and racism across intellectual disciplines.

**BL 0398 Independent Study** 1-3 Credits

**Attributes:** BSCP Black Studies Capstone Course

Upon request and by agreement with a professor in the program, a Black Studies minor may conduct a one-semester independent study on a defined research topic or field of study.

## Business (BU)

**BU 0211 Legal Environment of Business** 3 Credits

**Prerequisite:** Junior standing.

This course examines the broad philosophical as well as practical nature and function of the legal system, and introduces students to the legal and social responsibilities of business. The course includes an introduction to the legal system, the federal courts, Constitutional law, the United States Supreme Court, the civil process, and regulatory areas such as employment discrimination, protection of the environment, and corporate governance and securities markets.

**BU 0220 Environmental Law and Policy** 3 Credits

**Attributes:** EVME Environmental Studies Major Elective, EVPE

Environmental Studies Elective, EVSS Environmental Studies: Social Science, MGEL Management: General Elective

This course surveys issues arising out of federal laws designed to protect the environment and manage resources. It considers in detail the role of the Environmental Protection Agency in the enforcement of environmental policies arising out of such laws as the National Environmental Policy Act, the Clean Water Act, and the Clear Air Act, among others. The course also considers the impact of Congress, political parties, bureaucracy, and interest groups in shaping environmental policy, giving special attention to the impact of environmental regulation on business and private property rights.

**BU 0311 The Law of Contracts, Sales, and Property** 3 Credits

**Prerequisite:** BU 0211.

This course examines the components of common law contracts including the concepts of offer and acceptance, consideration, capacity and legality, assignment of rights and delegation of duties, as well as discharge of contracts. The course covers Articles 2 and 2A of the Uniform Commercial Code relating to leases, sales of goods, and warranties. The course also considers personal and real property, and bailments.

**BU 0312 The Law of Business Organizations and Financial Transactions** 3 Credits

**Prerequisite:** BU 0211.

This course offers an analysis of legal principles related to the law of agency, sole proprietorships, partnerships, corporations, limited liability companies, and other business forms. The second half of the course addresses several sections of the Uniform Commercial Code, such as negotiable instruments, bank collections and deposits and secured transactions. Finally, the course examines the law of suretyship, debtor-creditor relationships, and bankruptcy.

**BU 0320 Employment Law and Discrimination in the Workplace** 3 Credits

**Attributes:** MGEL Management: General Elective, UDIV U.S. Diversity

This course examines a variety of legal issues related to the workplace including the doctrine of employment at will, employee privacy, and the history and development of labor unions and the legal protections afforded by the National Labor Relations Act. A study of the role of the Civil Rights Act of 1964 and the Equal Employment Opportunity Commission in eradicating discrimination based on race, sex, religion, national origin, age, and disability occupies a major portion of the course. Other employment issues include affirmative action, worker safety, and compensation.

<b>BU 0391 Seminar in Business Law and Ethics</b>	<b>3 Credits</b>	<b>BU 0398 Internship</b>	<b>1 Credit</b>
<b>Prerequisites:</b> AE 0291, BU 0211, two additional courses in law or applied ethics.		<b>Prerequisite:</b> Junior standing.	
This interdisciplinary study of these two aspects of the business environment is cross-listed as AE 0391. Topics focus on the interaction of law and ethics, and the regulatory public policy issues in such areas as multiculturalism, work and family, the environment, product safety, international business, and advertising. This course is the capstone experience for students earning a minor in business law and ethics.		Students will engage in a work experience that is designed to be relevant to the student's academic pursuits, personal development, and professional preparation. The internship provides students with the opportunity to gain experience in workplace settings and to translate classroom learning into practice. The internship is a substantive career development experience. It can be paid or unpaid with the intent of the experience being for the student to be exposed to ideas and concepts in a professional setting while being mentored. At the end of the internship experience, students will be able to reflect on their personal and professional growth and make a more informed decision on their career path. Students must have a GPA of 2.5 or higher. Enrollment by permission only.	
<b>BU 0395 Internship</b>	<b>3 Credits</b>	<b>BU 0591 Business Practicum</b>	<b>3 Credits</b>
<b>Prerequisite:</b> Junior standing.		This course builds on the in-class lessons covered during the student's graduate studies by providing the student with an opportunity to apply his/her academic knowledge to a professional context. As such, it is an experiential learning activity. Successful completion of the practicum will entitle the student to three credits that count as a graduate-level elective. Enrollment is open only to students enrolled in the MBA Program, by permission of the Director of Graduate Programs or designee. This course may not be repeated for credit.	
<b>BU 0396 Internship</b>	<b>3 Credits</b>	<b>Business (Non-Credit) (BB)</b>	
<b>Prerequisite:</b> Junior standing.		<b>BB 0115 SHRM Learning Systems</b>	<b>0 Credits</b>
Students will engage in a work experience that is designed to be relevant to the student's academic pursuits, personal development, and professional preparation. The internship provides students with the opportunity to gain experience in workplace settings and to translate classroom learning into practice. The internship is a substantive career development experience. It can be paid or unpaid with the intent of the experience being for the student to be exposed to ideas and concepts in a professional setting while being mentored. At the end of the internship experience, students will be able to reflect on their personal and professional growth and make a more informed decision on their career path. Students must have a GPA of 2.5 or higher. Enrollment by permission only.		This SHRM-CP™ and SHRM-SCP™ certification preparation course is designed primarily for individuals seeking credentials that focus on identifying and testing the knowledge and practical real-life experiences HR professionals around the world need to excel in their careers today. This certification preparation program covers four knowledge domains: people, organization, workplace, and strategy, as well as eight behavioral competencies. This intensive 12-week program combines expert instruction with the 2017 SHRM Learning System®, so students will learn faster, retain more knowledge, and stay on track as they prepare for the exam.	
<b>BU 0397 Internship</b>	<b>1 Credit</b>	<b>BB 0121 SHRM Essentials of Human Resource Management</b>	<b>0 Credits</b>
<b>Prerequisite:</b> Junior standing.		This two-day certificate program covers introductory HR topics in a condensed, easy-to-understand format. The straightforward format ensures that HR concepts can be mastered and applied to real-life situations. Students will benefit from the shared experiences of instructors and peers, while learning techniques for handling HR challenges through interactive case studies designed to make students feel comfortable dealing with HR issues.	
Students will engage in a work experience that is designed to be relevant to the student's academic pursuits, personal development, and professional preparation. The internship provides students with the opportunity to gain experience in workplace settings and to translate classroom learning into practice. The internship is a substantive career development experience. It can be paid or unpaid with the intent of the experience being for the student to be exposed to ideas and concepts in a professional setting while being mentored. At the end of the internship experience, students will be able to reflect on their personal and professional growth and make a more informed decision on their career path. Students must have a GPA of 2.5 or higher. Enrollment by permission only.		<b>BB 0123 Strategic Management</b>	<b>0 Credits</b>
		This two-day seminar course with a SHRM-certified instructor will: cover HR Strategic Management and how it is related to organizational goals; describe how legal, political, cultural, and economic factors affect HR management efforts; define HR planning and outline the HR planning process; evaluate the impact of legislation (federal, state, and local) on the organization's goals; identify HR metrics and their applicability to strategy; and understand the role of social media in the HR management and planning process.	
		<b>BB 0130 Fundamentals and Principles of Personal Financial Planning</b>	<b>0 Credits</b>
		This foundation course provides an overview of the personal financial planning with an emphasis on the six-step financial planning process and client risk management.	

**BB 0132 Insurance Planning and Risk Management****0 Credits**

This course develops a methodology for identifying insurance risks, making recommendations, and managing ongoing risks as a way to lessen the impact of an unplanned event. Also covered: life, health, liability, and business planning.

**BB 0134 Investment Planning****0 Credits**

This course explores investment alternatives ranging from guaranteed and fixed income products to derivatives and private placements, using risk-return criteria to analyze each.

**BB 0136 Federal Income and Property Taxation****0 Credits**

Covers methods and concepts of federal income taxation for individuals, including real estate transactions. Topics include: income tax fundamentals; ethical considerations; tax accounting methods; taxation of trusts; cost-recovery methods; tax consequences of like-kind exchanges.

**BB 0138 Retirement Planning and Employer-Sponsored Benefits****0 Credits**

Includes assumptions and projections of lifestyle, inflation, returns, and life expectancy; cash flow; income sources; medical expenses; employer-sponsored benefits; stock options; stock purchase plans; cafeteria plans; and life and disability insurance.

**BB 0139 CFP Capstone Course****0 Credits**

**Prerequisites:** BB 0130, BB 0132, BB 0134, BB 0136, BB 0138, BB 0140.

This course will engage the student in critical thinking and decision-making about personal financial management topics in the context of the financial planning process. You will gain the hands-on experience of taking a client from start to finish with their personal financial plan.

**BB 0140 Estate Planning****0 Credits**

Topics, discussed from the perspective of the descendants, fiduciaries, estates, trust beneficiaries, donors, and donees, include: incapacity planning; satisfying liquidity needs; qualified interest trusts; charitable giving considerations and trusts; generation skipping; valuation issues; and estate planning and weakness.

## Business Analytics (BA)

**BA 0500 Business Analytics****3 Credits**

**Prerequisite:** OM 0400.

This course introduces basic skills necessary for business analytics such as data analysis using basic statistics, data visualization and summarization, descriptive and inferential statistics, spreadsheet modeling for prediction, linear regression, risk analysis using Monte-Carlo simulation, linear and nonlinear optimization, and decision analysis. Microsoft Excel is used as the platform for conducting analyses and performing statistical calculations.

**BA 0505 Python for Business Analytics****3 Credits**

In this course, we introduce Python as a language and tool for collecting, preprocessing, and visualizing data for business analytics. Since Python is one of the most popular programming languages, along with R, in data mining and business analytics, its fundamental programming logic and knowledge is essential for students to apply in data mining and to succeed in the job market. Specifically, this course focuses on the data-engineering phase, which includes collecting, preprocessing, and visualizing data, with respect to applications in business modeling, optimization, and statistical analysis. In addition, a number of mini projects will be used as vehicles to cover the main applications of data analytics, including recommender systems, text analytics, and web analytics.

**BA 0510 Databases for Business Analytics****3 Credits**

This course introduces databases and data management in three parts. The first part covers basic database fundamentals. The second part is a hands-on introduction to Structured Query Language (SQL) for defining, manipulating, accessing, and managing data, accompanied by the basics of data modeling and normalization needed to ensure data integrity. The course concludes with a comprehensive database project that gives each student the opportunity to integrate and apply the new knowledge and skills learned from this class. Advanced topics such as distributed database systems, data services, and NoSQL databases are also discussed.

**BA 0540 Business Intelligence****3 Credits**

**Prerequisites:** BA 0500, BA 0510, QA 0500.

This course will change the way students think about data and its role in business. Increasingly, managers rely on intelligent technology to systematically analyze data to improve their decision-making. In many cases, automating analytical and decision-making processes is necessary because of the large volume of data and the speed with which new data are generated. In this course, we will examine how data warehousing, modeling, and visualization can be used to improve managerial decision making.

**BA 0545 Data Mining****3 Credits**

**Prerequisites:** BA 0500, BA 0505.

Businesses, governments, and individuals create massive collections of data as a byproduct of their activity. In this course, we will study the fundamental principles and techniques of data mining through real-world examples and cases to place data mining techniques in context, to develop data-analytic thinking, and to illustrate that proper application of these techniques is as much an art as it is a science. In addition, we will work "hands-on" with contemporary data mining software.

**BA 0590 Capstone: Business Analytics Applications****3 Credits**

**Prerequisites:** BA 0540, BA 0545.

This capstone course for the MS Business Analytics program is to be taken in the last term before graduation. The purpose is to apply and integrate knowledge and skills learned in the program (statistics, modeling, data management, data mining, etc.) to a live data analytics project. The course is project-based, with students collaborating on their work under the guidance of faculty members. Application areas and format of the projects may vary, depending on faculty, dataset, and budget availability. However, the work should be rich enough to demonstrate mastery of business modeling and technology, with each student making a unique, demonstrable contribution to completion of the work.

## Chemistry (CH)

**CH 0007 Introduction to Forensic Science****3 Credits**

**Attributes:** EDCG Educational Studies Cognate

This course provides an introduction to the scientific techniques used for the analysis of common types of physical evidence encountered at crime scenes. Using critical thinking and laboratory experiences, students become crime scene investigators. They are charged with the task of solving a mock crime. The investigations include fabric analysis, ink analysis, blood analysis, DNA analysis, fingerprint analysis, ballistics, and/or blood alcohol analysis. The lecture part of the course focuses on exploring the underlying chemical principles behind the techniques and includes discussion of historical case studies. Note: This course counts as a science core course but does not satisfy requirements for the chemistry major or minor.

<b>CH 0010 Chemistry: Sights and Insights</b>	<b>3 Credits</b>	<b>CH 0084 General Chemistry for Health Science</b>	<b>3 Credits</b>
This course, which fulfills a science requirement and has no prerequisites, presents chemistry via lecture, demonstration, and laboratory work. The course provides students with insights into the microscopic world of atoms and molecules to better understand the macroscopic, observable properties of real substances, and applies the models developed in the course to representative substances from inorganic, organic chemistry, and biochemistry. Note: This course counts as a science core course but does not satisfy requirements for the chemistry major or minor.		<b>Attributes:</b> EDCG Educational Studies Cognate, HSST Health Studies: Science and Technology <b>Corequisite:</b> CH 0084L.	
<b>CH 0033 Chemistry of Nutrition</b>	<b>3 Credits</b>	<b>CH 0084L General Chemistry for Health Science Lab</b>	<b>1 Credit</b>
<b>Attributes:</b> EDCG Educational Studies Cognate, HSST Health Studies: Science and Technology		<b>Fee:</b> \$60 Science Lab Fee <b>Corequisite:</b> CH 0084.	
This course introduces basic chemical concepts, such as the atom, molecules, chemical reactivity and energy, as well as integrating fundamental biological concepts including cell structure and basic anatomy. Further explored, on a chemical level, are the structure and function of basic nutritional components: proteins, carbohydrate, lipids, vitamins, and minerals. With a scientific foundation established, topics pertaining to nutrition and human evolution, the life cycle, and exercise will be discussed. Current social and health issues such as obesity, food technology, and fad dieting will be incorporated throughout the course. Note: This course counts as a science core course but does not satisfy requirements for the chemistry major or minor.		This lab illustrates lecture concepts of CH 0084 and allows students to observe relevant physical systems.	
<b>CH 0072 Philosophy and Biochemistry of Food and Eating</b>	<b>3 Credits</b>	<b>CH 0085 Chemistry, Energy, and the Environment</b>	<b>3 Credits</b>
<b>Practices</b>		<b>Attributes:</b> EDCG Educational Studies Cognate, EVME Environmental Studies Major Elective, EVNS Environmental Studies: Natural Science, EVPE Environmental Studies Elective	
<b>Prerequisite:</b> PH 0101.		This course explores the flow of energy in modern society from the perspective of chemistry. Topics include the fossil fuels coal, petroleum, and natural gas, followed by an exploration of alternatives, including biomass, hydro, solar, tidal, wind, and nuclear energy sources. Students consider the source of energy, how it is harvested, and the short- and long-term environmental consequences of using each energy source and how these consequences are determined. The course uses the concepts of bonding, thermodynamics, kinetics, and work to investigate these and related ideas. The course also discusses economic and political forces that shape our use of energy. Note: This course counts as a science core course but does not satisfy requirements for the chemistry major or minor.	
<b>CH 0076 Environmental Science</b>	<b>3 Credits</b>	<b>CH 0086 Chemistry and Art</b>	<b>3 Credits</b>
<b>Attributes:</b> EVME Environmental Studies Major Elective, EVNS Environmental Studies: Natural Science, EVPE Environmental Studies Elective		<b>Attributes:</b> EDCG Educational Studies Cognate	
The science of the environment is presented through examination of the interconnections among physical, chemical, and biological fields of inquiry. This course looks at how the global environment is altered by the human population, technology, and production of fuels and food. In this course, students will acquire a scientific understanding of current issues in environmental science and learn to evaluate claims about current environmental problems.		This basic chemistry course with a strong orientation to the visual arts fulfills a core science requirement. Basic concepts include atoms, molecules, elements, compounds, the periodic table, chemical bonding and reaction, acids and bases, oxidation and reduction, and polymers. The lab employs these concepts to examine aspects of art media such as light, color, dyes, paint, metals, stone, ceramics, glass, plastics, paper, and fibers. Note: This course counts as a science core course but does not satisfy requirements for the chemistry major or minor.	
<b>CH 0083 Survey of Chemistry</b>	<b>3 Credits</b>	<b>CH 0087 Molecules of Life</b>	<b>3 Credits</b>
This one-semester course presumes no previous chemistry and fulfills a science requirement. The course consists of an introduction to atomic and molecular structure and the correlation of structural models to observable phenomena. The course discusses topics of historical and current relevance to society, including environmental issues, energy sources, natural products, and the application of chemistry in industry and medicine. Note: This course counts as a science core course but does not satisfy requirements for the chemistry major or minor.		This course explores the modern science of biologically relevant compounds and substances, which exist at the intersection of chemistry, biology, and medicine. We examine the major molecular components of the cell - proteins, nucleic acids, lipids, and more - and illustrate the application of chemical principles to understanding their structure and function. Since our lives are increasingly influenced by the availability of new pharmaceutical agents ranging from drugs that lower cholesterol to those that influence behavior, we develop insights needed to understand drug action and consider the design of new ways to intercede in the disease process. Note: This course counts as a science core course but does not satisfy requirements for the chemistry major or minor.	

<b>CH 0111 General Chemistry I</b>	<b>3 Credits</b>	<b>CH 0211L Organic Chemistry I Lab</b>	<b>1 Credit</b>
<b>Corequisite:</b> CH 0111L.		<b>Fee:</b> \$60 Science Lab Fee	
This course, the first in a two-semester sequence, covers atomic and molecular weights, the mole concept, Avogadro's number, stoichiometry, energy relationships in chemical systems, the properties of gases, the electronic structures of atoms, periodic relationships among the elements, chemical bonding, geometries of molecules, molecular orbitals, liquids, solids, intermolecular forces, solutions, rates of chemical reactions, chemical equilibrium, free energy, entropy, acids and bases, aqueous equilibria, electrochemistry, nuclear chemistry, chemistry of some metals and nonmetals, and chemistry of coordination compounds.		<b>Corequisite:</b> CH 0211.	
<b>CH 0111L General Chemistry I Lab</b>	<b>1 Credit</b>	<b>CH 0212 Organic Chemistry II Lab</b>	<b>3 Credits</b>
<b>Fee:</b> \$60 Science Lab Fee		<b>Fee:</b> \$60 Science Lab Fee	
<b>Corequisite:</b> CH 0111.		<b>Corequisite:</b> CH 0212.	
This lab offers the opportunity to explore and experience the rigors of an experimental physical science. Students make and record observations on simple chemical systems while learning fundamental laboratory manipulative and measurement skills. Experiments demonstrate and supplement concepts introduced in lecture. The first semester emphasizes weighing, filtering, titrating, using volumetric glassware, observing data, and recording and synthetic techniques. The second semester integrates these techniques in experimental procedures and explores physical properties and quantitative analysis of selected chemical systems.		This course is a continuation of CH 0211 and presents the chemistry of aromatic, carbonyl, acyl, and nitrogen compounds. The course relates the chemical properties of naturally occurring substances such as carbohydrates, lipids, proteins, and nucleic acids to those of simpler monofunctional compounds. Spectroscopic methods of structure determination are introduced early in the course and used throughout.	
<b>CH 0112 General Chemistry II</b>	<b>3 Credits</b>	<b>CH 0212L Organic Chemistry II Lab</b>	<b>1 Credit</b>
<b>Attributes:</b> HSST Health Studies: Science and Technology		<b>Fee:</b> \$60 Science Lab Fee	
<b>Corequisite:</b> CH 0112L.		<b>Corequisite:</b> CH 0212.	
<b>Prerequisite:</b> CH 0111.		This lab emphasizes investigative experiments, more complex synthesis, and qualitative organic analysis.	
This course, the second in a two-semester sequence, covers atomic and molecular weights, the mole concept, Avogadro's number, stoichiometry, energy relationships in chemical systems, the properties of gases, the electronic structures of atoms, periodic relationships among the elements, chemical bonding, geometries of molecules, molecular orbitals, liquids, solids, intermolecular forces, solutions, rates of chemical reactions, chemical equilibrium, free energy, entropy, acids and bases, aqueous equilibria, electrochemistry, nuclear chemistry, chemistry of some metals and nonmetals, and chemistry of coordination compounds.		<b>CH 0222 Chemical Analysis</b>	<b>3 Credits</b>
<b>CH 0112L General Chemistry II Lab</b>	<b>1 Credit</b>	<b>Attributes:</b> EVME Environmental Studies Major Elective	
<b>Fee:</b> \$60 Science Lab Fee		<b>Corequisite:</b> CH 0222L.	
<b>Corequisite:</b> CH 0112.		<b>Prerequisite:</b> CH 0112.	
This lab offers the opportunity to explore and experience the rigors of an experimental physical science. Students make and record observations on simple chemical systems while learning fundamental laboratory manipulative and measurement skills. Experiments demonstrate and supplement concepts introduced in lecture. The first semester emphasizes weighing, filtering, titrating, using volumetric glassware, observing data, and recording and synthetic techniques. The second semester integrates these techniques in experimental procedures and explores physical properties and quantitative analysis of selected chemical systems.		This course provides the theoretical basis for the required laboratory. Topics include statistics, chemical equilibria and their analytical applications (acid-base, oxidation-reduction, complex formation, precipitation), electroanalytical chemistry, spectroanalytical chemistry, and chemical separations.	
<b>CH 0222L Chemical Analysis Lab</b>		<b>CH 0222L Chemical Analysis Lab</b>	<b>1 Credit</b>
<b>Fee:</b> \$60 Science Lab Fee		<b>Fee:</b> \$60 Science Lab Fee	
<b>Corequisite:</b> CH 0222.		<b>Corequisite:</b> CH 0222.	
This lab explores quantitative aspects of chemistry through the analysis of unknowns and the characterization of chemical equilibrium, and pursue classical and instrumental methods of analysis.		Students explore quantitative aspects of chemistry through the analysis of unknowns and the characterization of chemical equilibrium, and pursue classical and instrumental methods of analysis.	
<b>CH 0261 Physical Chemistry I</b>		<b>CH 0261 Physical Chemistry I</b>	<b>3 Credits</b>
<b>Corequisite:</b> CH 0261L.		<b>Corequisite:</b> CH 0261L.	
<b>Prerequisites:</b> CH 0112, MA 0146 or higher, PS 0116.		<b>Prerequisites:</b> CH 0112, MA 0146 or higher, PS 0116.	
This course is the first of a two-semester sequence, covering thermodynamics of gasses, pure liquids, and both electrolyte and non-electrolyte solutions. Additional topics include chemical equilibrium, transport phenomena, reaction kinetics, quantum mechanics, spectroscopy, and statistical mechanics and statistical thermodynamics.		This course is the first of a two-semester sequence, covering thermodynamics of gasses, pure liquids, and both electrolyte and non-electrolyte solutions. Additional topics include chemical equilibrium, transport phenomena, reaction kinetics, quantum mechanics, spectroscopy, and statistical mechanics and statistical thermodynamics.	
<b>CH 0261L Physical Chemistry I Lab</b>		<b>CH 0261L Physical Chemistry I Lab</b>	<b>1 Credit</b>
<b>Fee:</b> \$60 Science Lab Fee		<b>Fee:</b> \$60 Science Lab Fee	
<b>Corequisite:</b> CH 0261.		<b>Corequisite:</b> CH 0261.	
This course demonstrates and verifies concepts covered in lecture courses CH 0261. Each lab meets weekly for three hours, during which students perform experiments with precision and care. The course incorporates current technology into each experiment and uses computers in data acquisition, reduction, and reporting. The course places special emphasis on data handling techniques and the accurate recording of observations.		This course demonstrates and verifies concepts covered in lecture courses CH 0261. Each lab meets weekly for three hours, during which students perform experiments with precision and care. The course incorporates current technology into each experiment and uses computers in data acquisition, reduction, and reporting. The course places special emphasis on data handling techniques and the accurate recording of observations.	
<b>CH 0211 Organic Chemistry I</b>	<b>3 Credits</b>		
<b>Corequisite:</b> CH 0211L.			
<b>Prerequisite:</b> CH 0112.			
This course, an introduction to the chemistry of carbon compounds, discusses common functional groups from the perspective of molecular structure. Areas of emphasis include structure and characterization, preparation or organic synthesis, and the relations of physical and chemical properties to molecular structure. Stereochemical concepts introduced early in the course are used throughout.			

<b>CH 0262 Physical Chemistry II</b>	<b>3 Credits</b>	<b>CH 0326L Instrumental-Analytical Chemistry Lab</b>	<b>3 Credits</b>
<b>Corequisite:</b> CH 0262L.		<b>Attributes:</b> EVME Environmental Studies Major Elective	
<b>Prerequisite:</b> CH 0261.		<b>Fee:</b> \$60 Science Lab Fee	
This course is the second of a two-semester sequence, covering thermodynamics of gasses, pure liquids, and both electrolyte and non-electrolyte solutions. Additional topics include chemical equilibrium, transport phenomena, reaction kinetics, quantum mechanics, spectroscopy, and statistical mechanics, and statistical thermodynamics.		<b>Prerequisites:</b> CH 0222, CH 0326.	
<b>CH 0262L Physical Chemistry II Lab</b>	<b>1 Credit</b>	<b>CH 0326L Instrumental-Analytical Chemistry Lab</b>	<b>3 Credits</b>
<b>Fee:</b> \$60 Science Lab Fee		<b>Attributes:</b> EVME Environmental Studies Major Elective	
<b>Corequisite:</b> CH 0262.		<b>Fee:</b> \$60 Science Lab Fee	
This course demonstrates and verifies concepts covered in the lecture course CH 0262. Each lab meets weekly for three hours, during which students perform experiments with precision and care. The course incorporates current technology into each experiment and uses computers in data acquisition, reduction, and reporting. The course places special emphasis on data handling techniques and the accurate recording of observations.		<b>Prerequisites:</b> CH 0222, CH 0326.	
<b>CH 0324 Biochemistry I</b>	<b>3 Credits</b>	<b>CH 0341 Advanced Inorganic Chemistry</b>	<b>3 Credits</b>
<b>Prerequisite:</b> CH 0212.		<b>Corequisites:</b> CH 0261, CH 0341L.	
This course will investigate the fundamentals of life - chemistry. The structures and functions of biomolecules, including proteins, DNA, RNA, lipids, and carbohydrates will be covered in depth. The concepts behind biological processes will be discussed, including enzyme kinetics and regulatory strategies, membrane functions, signal transduction, and an overview of metabolism.		This course introduces students to the interdependence of chemical bonding, spectroscopic characteristics, and reactivity properties of coordination compounds and complexes using the fundamental concept of symmetry. The principles of coordination chemistry will be introduced after reviewing atomic structure, the chemical bond, and molecular structure. A basic familiarity with symmetry will be formalized by an introduction to the elements of symmetry and group theory. The students will use symmetry and group theory approaches to understand central atom hybridization, ligand group orbitals, and the construction of qualitative molecular orbital (MO) energy diagrams including both sigma and pi bonding contributions. The students will continue to utilize their understanding of group theory during an introduction of electronic spectroscopy and the use of correlation and Tanabe-Sugano diagrams. MO diagrams will then be used as a starting point for understanding the reactivity properties of coordination complexes.	
<b>CH 0324L Biochemistry Lab</b>	<b>1 Credit</b>	<b>CH 0341L Advanced Inorganic Chemistry Lab</b>	<b>2 Credits</b>
<b>Fee:</b> \$60 Science Lab Fee		<b>Fee:</b> \$60 Science Lab Fee	
<b>Corequisite:</b> BI 0324 or BI 0325 or CH 0324 or CH 0325.		<b>Corequisite:</b> CH 0341.	
This course will investigate classic and most current methodology used in biochemistry. A semester project will be used to introduce techniques used in biochemistry to investigate the structure and function of a protein. In characterizing this protein, the analysis of DNA, lipids and carbohydrates will also be covered.		This lab is a synthetic inorganic lab with an emphasis placed on characterization. In the laboratory, students will have the opportunity to synthesize, characterize, and investigate the physical and reactive properties of coordination, organometallic, and air-sensitive complexes. Students will utilize the following instrumental methods to characterize their compounds: UV-Visible spectroscopy, magnetic susceptibility, polarimetry, infrared spectroscopy, and NMR spectroscopy. Students write formal laboratory reports for every experiment.	
<b>CH 0325 Biochemistry II</b>	<b>3 Credits</b>	<b>CH 0363 Advanced Topics</b>	<b>1-3 Credits</b>
<b>Prerequisites:</b> BI 0170, BI 0171, BI 0172, CH 0211, CH 0212.		<b>CH 0398 Research and Seminar</b>	<b>1-3 Credits</b>
This course focuses on the regulation of metabolic pathways involved in the synthesis, breakdown, and interconversion of biochemical intermediates that are fundamental to all life. Basic principles of biological thermodynamics will be highlighted in order to understand the processes by which living cells obtain and utilize energy. Students will develop an understanding of basic biomedical principles in the context of overall cell function. Formerly BI 0326.		Students undertake a research project in conjunction with a faculty member and present two seminars: one pertaining to a literature topic, the other focused on their research. Enrollment by departmental permission only.	
<b>CH 0325L Biochemistry Lab</b>	<b>1 Credit</b>	<b>CH 0399 Independent Study</b>	<b>1-3 Credits</b>
<b>Fee:</b> \$60 Science Lab Fee		<b>Prerequisite:</b> CH 0262.	
<b>Corequisite:</b> BI 0324 or BI 0325 or CH 0324 or CH 0325.		This course, designed for students seeking an in-depth examination of a pre-specified area under the close direction of a faculty member(s) presents topics not routinely encountered in the normal course sequence.	
This course will investigate classic and most current methodology used in biochemistry. A semester project will be used to introduce techniques used in biochemistry to investigate the structure and function of a protein. In characterizing this protein, the analysis of DNA, lipids and carbohydrates will also be covered.			
<b>CH 0326 Chemical Instrumentation</b>	<b>3 Credits</b>		
<b>Attributes:</b> EVME Environmental Studies Major Elective			
<b>Prerequisite:</b> CH 0222.			
Students study chemical analysis in detail, using modern instrumentation. Students explore current methods of analysis, theory of transduction, implementation of instrumental principles, and physical theory of chemical systems in the context of the goals of the analytical problem and consider examples of applications.			

# Chinese (CI)

## CI 0110 Elementary Chinese I

**3 Credits**

Designed for students with no prior experience with Chinese or whose placement scores are in the range for this course level. This course, the first of a two-semester sequence, teaches the essentials of pronunciation, structure, and usage, allowing students to acquire the skills of listening, speaking, reading, and writing. Language cultures are explored through a variety of media. Students attend three classes per week and do mandatory online work determined by the instructor.

## CI 0111 Elementary Chinese II

**3 Credits**

**Prerequisite:** CI 0110.

This course, a continuation of CI 0110, teaches the essentials of pronunciation, structure, and usage, allowing students to acquire the skills of listening, speaking, reading, and writing. Language cultures are explored through a variety of media. Students attend three classes per week and do mandatory online work determined by the instructor.

## CI 0210 Intermediate Chinese I

**3 Credits**

This course, the first of a two-semester sequence, prepares students to continue the study of language on a more advanced level, and includes review of essential points of grammar, vocabulary building, and regular practice in speaking and writing. The language cultures are explored through a wide variety of materials (literary texts, press articles, films, etc.). Students attend three classes per week and do mandatory online work determined by the instructor.

## CI 0211 Intermediate Chinese II

**3 Credits**

**Prerequisite:** CI 0210.

This course, a continuation of CI 0210, prepares students to continue the study of language on a more advanced level, and includes review of essential points of grammar, vocabulary building, and regular practice in speaking and writing. The language cultures are explored through a wide variety of materials (literary texts, press articles, films, etc.). Students attend three classes per week and do mandatory online work determined by the instructor.

## CI 0220 Advanced Chinese

**3 Credits**

**Prerequisite:** CI 0211.

This course will continue to build on work completed through the intermediate level Chinese. All four skills: reading, listening, reading, and writing, will be further strengthened, but with emphasis on consolidating conversational skills and improving reading confidence. Upon completion of the course, students should be able to use integrated skills and cultural strategies to speak with some fluency on everyday conversational topics, read lengthier and more complex materials, write short but accurate compositions on computers using Chinese software, and develop a more sophisticated sense about the language and the culture.

## CI 0221 Reading China

**3 Credits**

**Attributes:** WDIV World Diversity

**Prerequisite:** CI 0211.

This course has the twin goals of increasing reading proficiency in Chinese language and exploring Chinese culture. Topics are selected from four main areas: Chinese Geography (e.g. city, countryside, landscape), Chinese Life (e.g. festivals, popular culture, everyday living), Chinese Society (e.g. family, social problems, internet use), and Chinese History and Thought (e.g. history, literature, myth, and philosophy). Students also learn how to use different resources and online tools to read and research China-related subjects on their own. Required readings and assignments are in Chinese.

## CI 0250 Modern China Through Fiction and Film

**3 Credits**

**Attributes:** WDIV World Diversity

A study of various cultural aspects of modern China in the 20th century through reading translated fiction as well as films. Students explore topics such as modernity, nationalism, individualism, gender, and cultural identity in the modern cultural-historical context. Also will be discussed are issues particular to fiction and film as representational modes: How do fiction and film narrate history and the complex Chinese experience? How have they both been shaped by and contributed to the socio-cultural transformations? And how do they represent the increasingly diversified cultural and social landscape of contemporary China?

## CI 0251 New Chinese Cinema

**3 Credits**

**Attributes:** WDIV World Diversity

The course examines the films of major directors contributing to the rise of "New Chinese Cinema" in mainland China, Taiwan and Hong Kong since the mid-1980s. Emphasis is on individual directors' distinctive aesthetics and philosophy in the specific cultural-historical context of film production and reception. Students will study how these films represent history and memory, the relationship between individual and society, woman and gender, and how such films participate in the cultural imagination of China and Chineseness in the global context. The goal will be development of a basic film-critical vocabulary. All films have subtitles, and readings are in English.

## CI 0252 The City and Modern China

**3 Credits**

**Attributes:** E\_AF English Literature After 1800, WDIV World Diversity

The course studies the literary and visual representations of the city in modern China through a sampling of stories, novels, photos, films, and critical essays. Students discuss how literature and visual art bear witness to the changing faces of the metropolis and urban life during the time of Chinese modernization and globalization and how the city expresses modern ethos, desires and paradoxes in literary works and films. All texts are in English. Films have subtitles.

## CI 0253 China and the West: Stories of Encounter

**3 Credits**

**Attributes:** WDIV World Diversity

The course examines the relationship between China and the West with an emphasis on the intellectual and artistic aspects of the encounter in modern times. We discuss both the West's experience and views of China and China's response to the West and their modern global experience. The course materials, which include fiction, films, non-fictional essays and theoretical articles, are arranged based on key historical figures, events, and issues. Students develop a foundational knowledge about China-and-the-West intercultural experience and representations and learn to think and analyze critically the relationships between fiction and history, art and life, and self and society. All texts are in English.

## CI 0381 Coordinating Seminar

**3 Credits**

Students undertake readings and studies in a specialized area of Chinese under the direction of a staff member. Designed to fill the special needs of specific students, this course is offered at the discretion of the department chair. Hours by arrangement.

## CI 0382 Independent Study

**1-3 Credits**

Students undertake readings and studies in a specialized area of Chinese under the direction of a staff member. Designed to fill the special needs of specific students, this course is offered at the discretion of the department chair. Hours by arrangement.

# Classical Studies (CL)

## CL 0106 Masterpieces of Greek Literature in English Translation 3 Credits

**Attributes:** E\_BF English Literature Before 1800

This course surveys major works of ancient Greek literature, emphasizing the content of this literature as a key to understanding classical Greek civilization and as meaningful in a contemporary context. This course may be taken to fulfill the core requirement in English literature.

## CL 0107 Masterpieces of Roman Literature in English

Translation

3 Credits

**Attributes:** E\_BF English Literature Before 1800

This course surveys major works of Roman literature of the republic and early empire, emphasizing the content of this literature as a key to understanding Roman civilization, and as meaningful in a contemporary context. This course may be taken to fulfill the core requirement in English literature.

## CL 0108 Myth in Classical Literature

3 Credits

This course introduces students to classical mythology through an examination of the diverse ways in which myth and legend are treated in the literatures of ancient Greece and Rome. Students read texts in English translation; knowledge of Greek or Latin is not required. This course may be taken to fulfill the core requirement in English literature.

## CL 0109 Greek Tragedy in English Translation

3 Credits

An intensive study in translation of the surviving works of Aeschylus, Sophocles and Euripides. Knowledge of Greek is not required. This course may be taken to fulfill the core requirement in English literature.

## CL 0115 Greek Civilization

3 Credits

Students study the Greek experience: the social and cultural values, political institutions, and economic structures of the ancient Greeks and their effect on the historical process in the period down to the death of Alexander. Knowledge of Greek is not required. This course may be taken to fulfill the 100-level core requirement in History.

## CL 0116 Roman Civilization

3 Credits

**Attributes:** ISIC Italian Studies: Italy Component

Roman civilization spanned more than 1,000 years of history and culture, and influenced western society in profound ways. This course traces Rome's development from a small local tribe to a world power, examining how it expanded and conquered the Mediterranean and absorbed into its culture aspects of the peoples it defeated. Knowledge of Latin is not required. This course may be taken to fulfill the 100-level core requirement in History.

## CL 0127 Romantic Love in Greek and Roman Literature

3 Credits

**Attributes:** E\_BF English Literature Before 1800

**Prerequisites:** EN 0011, EN 0012.

The course of true love never did run smooth. From Homer's Penelope to Ovid's Remedies of Love we will examine the permutations of romantic desire and its frustrations in the literature of Greece and Rome. Readings also include selections from Sappho's poetry, Sophocles' Women of Trachis, Euripides' Hippolytos and Medea, comedies by Menander and Terence, Catullus poems to Lesbia, Vergil's tale of Dido and Aeneas, selections from the elegies of Tibullus Sulpicia, Propertius and Ovide, and briefer excerpts from other authors. All readings are in English translation. This course may be taken to fulfill the core requirement in English literature.

## CL 0199 Special Topics (Shell)

3 Credits

This course explores a specific topic in the interdisciplinary field of classical studies. Content will vary in successive offerings of this course.

## CL 0221 Hellenistic World, 336-30 BCE

3 Credits

**Attributes:** H\_BF History Before 1750, H\_EU European History, H\_NW Non-Western History, WDIV World Diversity

**Prerequisite:** CL 0115 or CL 0116 or HI 0010.

The course examines the Mediterranean world and the ancient near east from the late fourth to late first centuries BC. Focus is on: the career of Alexander the Great; the Greek kingdoms that emerge after the collapse of his empire; the interaction between local cultures and religions - e.g. Egypt, ancient Judaism - and Greek civilization; the social history of daily life in conquered lands under Greek rule; and the transformations in the Hellenistic world with the arrival of Roman rule.

## CL 0222 The Roman Revolution

3 Credits

**Attributes:** H\_BF History Before 1750, H\_EU European History, ISIF Italian Studies: Italy-Focused

**Prerequisite:** CL 0115 or CL 0116 or HI 0010.

This course presents a comprehensive study of the political, social, artistic, literary, and military transformation of Rome from the middle of the second-century B.C. through the reign of Augustus, with special attention given to Rome's response to the cultural and governmental challenges imposed by its growing empire and how its responses forever changed the course of Western civilization.

## CL 0223 The Roman World in Late Antiquity, 284-642 AD

3 Credits

**Attributes:** H\_BF History Before 1750, H\_EU European History

**Prerequisite:** CL 0115 or CL 0116 or HI 0010.

The course examines the Mediterranean world from the third to seventh centuries AD. Focus is on: the collapse of the Roman Empire in western Europe; the dramatic upheavals caused by the arrival in the Roman Empire of the Visigoths, Vandals, and other barbarian tribes; the survival of the Byzantine East through the early Islamic conquests; the rise of Christianity from a persecuted religion to the official religion of the Roman Empire; and the accompanying cultural transformations, including the rise of monasticism and the importance of the holy man.

## CL 0224 Byzantine World

3 Credits

**Attributes:** H\_EU European History

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

This course is an introduction to political and social history of Byzantine Empire. It also highlights Byzantium's role as a bridge between Greco-Roman antiquity and modern European civilization. Course lectures will cover Byzantium's origins in the eastern half of the Roman Empire, Byzantium's middle period as a major Mediterranean power, and its late period as an increasingly shrinking city-state. The course will also introduce students to some of the major Byzantine historians and to methods of analysis using these sources, and train students to form historical arguments based on these analyses.

## CL 0325 Athenian Democracy and Empire

3 Credits

**Attributes:** H\_BF History Before 1750, H\_EU European History

**Prerequisite:** CL 0115 or CL 0116 or HI 0010; CL 0115 or CL 0116 or one 200-level History course.

This history seminar provides an in-depth exploration of classical Athens at the height of its power in the fifth century BC. Its focus is on close reading of the primary sources describing the rise and fall of Athens in this period. It places particular emphasis on the parallel rise of Athenian democracy at home and the Athenian empire overseas. It places secondary emphasis on the nature of Athenian intellectual discourse in this period. A final research project will engage modern scholarly debates on the nature of fifth-century Athens.

**CL 0399 Capstone Project in Classics****3 Credits**

**Prerequisite:** At least seven courses in the individually designed major. Students completing an individually designed major in classical studies develop and carry out a major project that allows them to pull together the multiple threads of their interdisciplinary major.

## Communication (CO)

**CO 0100 Human Communication Theories****3 Credits**

This course introduces major theoretical perspectives that inform communication scholarship. This foundational course for the major emphasizes understanding human communication as a symbolic process that creates, maintains, and alters personal, social, and cultural identities. Students critique research literature in the communication field in this course, which is a prerequisite for the 200- and 300-level communication courses. This course counts in the social and behavioral sciences core curriculum for non-majors.

**CO 0101 Argument and Advocacy****3 Credits**

This introduction to public speaking and the advocacy process includes topic identification; methods of organization, research, selection, and arrangement of support materials; audience analysis and adaptation; patterns and fallacies of reasoning; uses of evidence; logical proof; and refutation. Students practice and critique informative and persuasive presentations in this course, which is a skill required in all 200- and 300-level communication courses.

**CO 0102 Introduction to Public Relations****3 Credits**

This course introduces public relations as a field of study and as a practice. Through building critical thinking and considering ethical behaviors, this course will not only introduce you to the various types of public relations but will also help you to become a critical consumer of the public relations efforts taking place in the world around you while developing your own public relations tools and strategies.

**CO 0130 Mass Media and Society****3 Credits**

**Attributes:** GDCO Graphic Design: Communication

This media literacy course offers theoretical and practical tools to critically analyze media texts, as well as understand different ways in which audiences interact with them. Students will inquire into how the pervasive mediation of human experience through mass communication channels affects almost every aspect of socialization processes and people's symbolic environment. The interplay between structural constraints conveyed in media's messages and humans' capacity to exercise interpretive agency is addressed through lectures, audiovisual examples, hands-on activities, and a variety of assignments aimed at discerning the elements that intervene in the construction and reception of media texts, beyond their apparent components. This course counts in the social and behavioral sciences core curriculum for non-majors.

**CO 0200 Interpersonal Communication Theories****3 Credits**

**Prerequisite:** CO 0100.

An examination of one-to-one relationships from a variety of theoretical perspectives, this course focuses on the centrality of communication in building familial bonds, friendships, and work teams. Students examine factors influencing interpersonal communication such as language, perception, nonverbal behavior, power, status, and gender roles.

**CO 0201 Persuasion****3 Credits**

**Prerequisite:** CO 0100 or CO 0102.

This course develops students' understanding of the major theoretical approaches to the study of persuasion as a particular type of social influence, giving specific attention to the processes of interpersonal influence and the media's role in changing social attitudes. Students construct communication campaigns to apply persuasion concepts and skills.

**CO 0202 Small Group Communication****3 Credits**

**Prerequisite:** CO 0100 or CO 0102.

This course examines the basic characteristics and consequences of small-group communication processes in various contexts including family, education, and work groups. The course stresses interaction analysis and teambuilding. Because the course involves examining small groups in process, students do a substantial amount of group work.

**CO 0220 Introduction to Organizational Communication****3 Credits**

**Attributes:** BUEL Business Elective

**Prerequisite:** CO 0100 or CO 0102.

Taking a historical and communication-centered approach to understanding how business and professional organizations function, this course addresses the analysis of upward, downward, and lateral communication; communication channels and networks; power and critical theory; organizations as cultures; internal and external public communication; and leadership. The course uses a case study approach.

**CO 0231 Media Institutions****3 Credits**

**Attributes:** ENDE Digital Journalism Elective

**Prerequisite:** CO 0130.

The course concentrates on the economic, political, and legal environment of U.S. mass media. Issues include examination of individual media industries, the economic structure of U.S. media markets, media law and regulation, media watchdogs, advocacy organizations, and media users' forms of collective action. The course's content is approached through an institutional analysis perspective, intended to facilitate students' understanding of institutions as dynamic points of confluence for organizations, norms, and individual agents. As part of the course's requirements, students conduct a research project exploring recent developments and/or decision-making processes within one of the major media institutions covered during the semester.

**CO 0233 Information Technologies: Economics, Law, and Policy****3 Credits**

**Attributes:** ENDE Digital Journalism Elective

**Prerequisite:** CO 0130.

An in-depth exploration of current issues and trends that shape the institutional environment of information industries and new media, both domestically and globally. By digesting and analyzing a diversity of scholarly sources, news reports, and materials generated by multiple stakeholders, students will gain a critical perspective on major economic, legal, and policy questions that affect the production, access to, circulation, and processing of digital content, such as broadband penetration, regulation of intellectual property, crowdsourcing, privacy, surveillance, net neutrality, emerging revenue models for information goods, and regulation and governance of the Internet.

<b>CO 0236 Gender, Sexuality, and Media</b>	<b>3 Credits</b>	<b>CO 0240 Intercultural Communication</b>	<b>3 Credits</b>
<b>Attributes:</b> UDIV U.S. Diversity, WSGF Women, Gender, and Sexuality Studies: Gender Focused		<b>Attributes:</b> UDIV U.S. Diversity	
<b>Prerequisite:</b> CO 0130.		<b>Prerequisite:</b> CO 0100 or CO 0102 or IL 0050.	
This course enables students to examine the relationship between the representation of women and the development of personal and social identity. Students explore issues of gender and reception, cultivating consumerism, body image, and developing relevant new images through theoretical readings as well as the analysis of various media, including television, film, magazines, and advertisements. The course also covers the experiences of women in a variety of media professions.		This course deals with challenges to communication between people of different cultural backgrounds, emphasizing the ways communication practices reveal cultural values and the role of communication in creating and sustaining cultural identities. Students discuss how differences in value orientation, perception, thought patterns, and nonverbal behavior cause misunderstanding, tension, and conflict in business, education, and healthcare settings. Registration preference is given to Communication and International Studies majors.	
<b>CO 0237 Sports, Media, and Culture</b>	<b>3 Credits</b>	<b>CO 0241 Communication and Culture: East and West</b>	<b>3 Credits</b>
<b>Attributes:</b> UDIV U.S. Diversity		<b>Attributes:</b> WDIV World Diversity	
<b>Prerequisite:</b> CO 0130.		<b>Prerequisite:</b> CO 0100 or CO 0102 or IL 0050.	
Sports have long played a vital yet complex role in culture and this course examines the intersection of sports, the mass media, and society. Drawing upon Durkheimian theory, we will appraise and debate the ways in which sports are functional or problematic in their impact on and relationship to players, fans, journalists, co-cultural groups, and nations. Students will read both scholarly and journalistic reflections, view popular and documentary films, and analyze fan experiences, mediated presentations, and critical social issues. In short, we will go beyond the box score to understand the importance - and deconstruct the hype - that accompanies modern sports.		This course examines the dynamics of culture and communication focusing on the East-West dyad. It helps students gain a better understanding of why and how cultural issues influence our communication. The course explores the East-West cultural similarities and differences in values, communication processes, cognition, and relationships. It will enhance students' intercultural awareness and sensitivity in our increasingly globalized society.	
<b>CO 0238 Communication and Popular Culture</b>	<b>3 Credits</b>	<b>CO 0242 Alcohol, Addiction and Culture</b>	<b>3 Credits</b>
<b>Attributes:</b> ASCO American Studies: Communication		<b>Attributes:</b> HSSS Health Studies: Social Science	
<b>Prerequisite:</b> CO 0130.		<b>Prerequisite:</b> CO 0100 or CO 0102.	
This course takes the cultural artifacts that engulf us, from fashion to television and from music to comic books, and removes these practices and texts from simply being "entertainment" or "diversion" and asks what these things mean, how they constitute power, and how they shape and reflect the lived experiences of consumers. This course takes very seriously those things that are typically discarded as lacking substance and instead suggests that the meanings and impact of popular culture have dramatic consequences for political, social, and cultural life in the United States.		From the time we are young children through our adult lives we are exposed to countless alcohol advertisements and engage in myriad alcohol-focused conversations with family, friends and coworkers. This course draws on perspectives from the personal to the institutional to critically examine the conversations on alcohol consumption, promotion, education and recovery from a health communication perspective. Through service learning opportunities with local high school seniors, students in the course reflects on the ways in which we talk about alcohol use, abuse, and alcoholism, and how that "talk" cultivates harmful and helpful perceptions and behaviors.	
<b>CO 0239 Consumer Culture</b>	<b>3 Credits</b>	<b>CO 0245 Identities, Discourse, and Social Change</b>	<b>3 Credits</b>
<b>Attributes:</b> UDIV U.S. Diversity		<b>Attributes:</b> BSFC Black Studies Focus Course, BSSS Black Studies: Social and Behavioral Sciences, PJST Peace and Justice Studies, UDIV U.S. Diversity, WSGC Women, Gender, and Sexuality Studies: Gender Component	
<b>Prerequisite:</b> CO 0130.		<b>Prerequisite:</b> CO 0100.	
This course explores how social meanings are constructed through commodities and material society, how consumer goods and practices create categories of social difference. In particular, the course focuses on the intersections of consumer practices and gender/sexuality, race and class, articulating the relationship between communication and consumption practices and social/cultural identities. Theoretical approaches include Marxism, Postmodernism, and other economic and social critiques, and explore research methods to empirically investigate questions of culture. Students reflect on questions of social justice in relation to an increasingly materialistic society as they seek to become citizens prepared to "consume with a conscience."		Grounded in the premise that identities are inseparable from communication, this course focuses on the negotiation of, and the discursive practices pertaining to, social identities by exploring the intersections of ethnicity-race, gender, sexuality, social class, ability and age. Given that individual-group differences matter, this course addresses social issues and concerns by concentrating on how structures of power and privilege shape understandings of salient social identities within the United States. Additionally, this course will raise questions about the role of communication research in fostering social change.	

**CO 0246 Family Communication****3 Credits****Attributes:** UDIV U.S. Diversity, WSGF Women, Gender, and Sexuality**Studies:** Gender Focused**Prerequisite:** CO 0100 or CO 0102.

In this course students come to understand how families are constituted through symbolic processes and interaction; explore the verbal and non-verbal communication behaviors that are developed and preferred in different kinds of families; learn various theories for understanding family interactions at the individual, dyadic, group, and systems levels; analyze family communication patterns using established theories and methods; connect family dynamics to social trends and processes including the roles of the mass media and popular culture; and explore ways culture, class, gender, and sexuality affect and are affected by family structures, roles, and communication patterns.

**CO 0248 Health Communication****3 Credits****Attributes:** HSSS Health Studies: Social Science**Prerequisite:** Sophomore standing.

This course surveys the multidimensional processes used to create, maintain, and transform complex scientific information into everyday healthcare practices. A major emphasis is on the processes and complexities of communicating health information in a variety of settings (in hospitals, families, insurance companies, policy organizations, etc.) and through different channels (face-to-face, in medical records, through the mass media, etc.). We will study the verbal and non-verbal communication behaviors of providers, patients, families, insurers, and others in healthcare contexts, as well as health-related messages in the mass media, in order to understand effective and problematic communication about illness and health.

**CO 0309 Research Projects in Communication: Capstone****3 Credits****Prerequisites:** CO 0100 or CO 0102, CO 0101, CO 0130, CO 0200 or CO 0220, senior standing, and at least one intermediate or advanced course in student's area of concentrated study.

This course allows students to demonstrate their expertise as communication scholars through discussion and evaluation of contemporary research in communication. The course examines qualitative and quantitative methodologies in understanding the research design process. As members of research teams, students design and conduct research projects related to their areas of concentrated study. This is the required major capstone course.

**CO 0321 Communication Processes in Organizations:****Negotiation****3 Credits****Attributes:** EVAP Environmental Studies: Applied Professional Skills**Prerequisites:** CO 0220; junior or senior standing.

This course reviews and explores, through simulation and experiential learning, negotiation as a communication process in and among organizations. It focuses on core concepts and approaches to negotiation, and exercises the negotiative process in a contemporary context. In this course, which is open to majors and minors in communication and other disciplines related to the study of humans and their organizations in the work world, participants carry out individual and team work, and contribute on time and proportionately to team preparations and class simulations.

**CO 0322 Leadership Communication****3 Credits****Prerequisites:** CO 0220; junior or senior standing.

This course examines the processes and complexities of being a leader in today's dynamic organizational environment. The course explores the leadership styles, traits, and communication skills required of effective leaders. In addition, theories of leadership and the impact of culture and ethics, both historically and currently, will be studied. This course uses a combination of lecture, discussion, individual and group learning opportunities, including interviews of professional and community leaders, as well as a written and oral research projects to aid in students' assimilation of the material.

**CO 0323 Gender and Organizing****3 Credits****Attributes:** WSGF Women, Gender, and Sexuality**Studies:** Gender Focused**Prerequisites:** CO 0220; junior or senior standing.

Gender is central to how we organize our lives. The way we communicate about gender can enhance or undermine all of our relationships. The purpose of this seminar is to augment, or even change, our understanding of the relationship between gender, communication, and organizations. Specifically, the goal for this course is to use a combination of scholarly essays and journal articles as well as popular news media to examine critically topics such as femininity, masculinity, and sexuality within the following contexts: education, sports, politics/government, leadership, the military, and other professions and organizations.

**CO 0324 Crisis Communication****3 Credits****Attributes:** HASM Humanitarian Action Minor Skills/Method Course**Prerequisites:** CO 0200 or CO 0220; junior or senior standing.

This course discusses key concepts, principles, and best practices of crisis communication. Intersections with other areas of the communication field will also be addressed, including public relations and organizational and risk communication. Students will understand the role strategic communication, power, stakeholders, and organizational culture play during a crisis. This course analyzes case studies of previous crises and will ask students to provide their own plans and critical assessments of recent crises.

**CO 0325 Organizational Communication and Advertising****3 Credits****Prerequisites:** CO 0220; junior or senior standing.

This course will highlight how organizations market, promote, and advertise their brands. The importance of advertising for organizations, consumers, and the U.S. economy will also be a central focus of this class. Furthermore, the critical roles of research, audience analysis, persuasion, and effective communication in altering consumers' perceptions will be explored from both theoretical and applied perspectives. The value of deconstructing ads from a consumer, brand manager, and advertiser's viewpoint will be stressed and explored. In addition, the historical and contemporary ethical implications of advertising, especially in health care and for children, will be closely examined.

<b>CO 0326 Palliative Care Communication in the United States and Ireland</b>	<b>3 Credits</b>	<b>CO 0332 Children as Media Consumers</b>	<b>3 Credits</b>
<b>Prerequisites:</b> Junior or senior standing.		<b>Prerequisites:</b> CO 0130; junior or senior standing.	
This is an interdisciplinary, intercultural course that applies a bifocal (communication and healthcare) lens to the study of palliative care. The course is intended to explore this relatively new area of health care delivery (quality of life vs. cure) and the critical role communication plays in accomplishing the interdependent goals of providers, patients, and families in the United States and Ireland. Since palliative care should be for all chronically- and/or terminally-ill patients across the life cycle, students will critically examine, from both health care and communication perspectives, the differences in palliative care delivery in the United States and Ireland. Open to students with majors or minors in Communication, Health Studies, Nursing, Public Health, or Public Relations, as well as Health Professions students.		This course aims to provide a forum for advanced Communication students to explore the patterns of children's media consumption, focusing primarily on children's use of the so-called "screen media" (television, videogames, and the Internet), and to investigate the multi-faceted consequences – both positive and negative, social and individual – of children's media consumption. Students will draw upon contemporary theories of communication to assess the content of children's media and its "effects" on children as a particular segment of the audience. Students will develop an informed understanding of children as media consumers, advocating for the production of "quality" content in children's media.	
<b>CO 0329 Contemporary Topics in Organizational Communication</b>	<b>3 Credits</b>	<b>CO 0333 News Media and Democracy</b>	<b>3 Credits</b>
<b>Prerequisites:</b> CO 0220; junior or senior standing.		<b>Attributes:</b> ENDE Digital Journalism Elective	
This is an upper-level, undergraduate seminar for students in the Organizational Communication emphasis of the major. The course provides an opportunity to examine in depth particular theories of organizational communication, or to conduct research about communication in particular types of organizations. Emphasis is on contemporary theoretical and/or methodological approaches to the close analysis of interpersonal, group, and intercultural communication in organizational settings, or strategic communication practices of organizations with their external audiences/publics. Topics may include: Organizational Communication in the Global Economy; Communication in Healthcare Organizations; Gender and Communication in Organizations; and Communication in Organizational Crisis. Students may take this course up to two times with different topics.		<b>Prerequisites:</b> CO 0130; junior or senior standing.	
<b>CO 0330 Misinformation in Digital Media</b>	<b>3 Credits</b>	<b>CO 0334 Comparative Media Systems</b>	<b>3 Credits</b>
<b>Prerequisites:</b> CO 0130; junior or senior standing.		<b>Attributes:</b> ENDE Digital Journalism Elective	
This course critically examines the causes for, and the consequences of, the proliferation of false and misleading information in online spaces. While the ubiquity of false information online is often talked about as if it is random or inevitable, this class will detail the specific mechanisms by which false information is produced, spread, and consumed. More importantly, it will contextualize the practice within larger social, culture, and geopolitical environments and connect it to the larger history of misinformation and media technologies. Finally, the course will prepare students to combat false and misleading information encountered in their own media diets.		<b>Prerequisites:</b> CO 0130; junior or senior standing.	
<b>CO 0331 American Media / American History</b>	<b>3 Credits</b>	<b>CO 0335 Globalization, Media, and Culture</b>	<b>3 Credits</b>
<b>Attributes:</b> ENDE Digital Journalism Elective		<b>Prerequisites:</b> CO 0130 or IL 0050; junior or senior standing.	
<b>Prerequisites:</b> CO 0130; junior or senior standing.		Globalization, a complex and transformative process that influences our lives at every level, has produced the increased flow of goods, capital, people, knowledge, images, crime, pollutants, drugs, fashion, viruses, and beliefs across territorial and ideological boundaries of all kinds. This course focuses on the role of communication media (radio, television, film, computers) in the processes of globalization and examines the impact of globalization on cultural representations, cultural identity, and international relations.	

<b>CO 0336 Social Media</b>	<b>3 Credits</b>	<b>CO 0341 End of Life Communication</b>	<b>3 Credits</b>
<b>Prerequisites:</b> CO 0130; junior or senior standing.		<b>Attributes:</b> HSSS Health Studies: Social Science	
At the turn of the millennium, social media was still an unknown term; today, it is inescapably altering the landscape of our world and our lives in complex ways. This course examines social media by historicizing what is timeless about it and charting its new frontiers for humankind. Through a mix of scholarly, journalistic, and professional industry readings on social media, we will explore how culture, community, and identity are being reshaped alongside politics, business, and (what was once called) the mass communication industry.		<b>Prerequisites:</b> Junior standing.	
<b>CO 0337 Visual Communication</b>	<b>3 Credits</b>	<b>CO 0342 Technoculture and Information Society</b>	<b>3 Credits</b>
<b>Attributes:</b> GDCO Graphic Design: Communication		<b>Prerequisites:</b> CO 0130; junior or senior standing.	
<b>Prerequisite:</b> CO 0130; junior or senior standing.		This course explores phenomena, trends, and theories related to emerging information and communication technologies (ICTs), as well as relationships among those technologies, socio-economic structures, "old" media institutions, media users, and culture. Through a combination of theoretical and practical explorations that emphasize historical, ethical, and critical thinking, the course introduces students to academic and non-academic perspectives on new media.	
This course provides a broad introduction to the structure, conventions, and effects of visual communication with a theoretical emphasis on media ecology. The first half is devoted to understanding formal properties including examining the basics of vision, techniques for visual persuasion, and the language of cinematography and editing. The second half surveys more controversial issues like digital manipulation and violence and sex in media. Course material and assignments will be drawn from media domains including advertising, photo/video journalism, and video games. Students will read both theoretical contributions to and empirical investigations of the field.		<b>CO 0343 Ethics and Medical Marketing Communication</b>	<b>3 Credits</b>
<b>CO 0338 Media Audiences</b>	<b>3 Credits</b>	<b>Attributes:</b> HSSS Health Studies: Social Science	
<b>Attributes:</b> UDIV U.S. Diversity, WSGF Women, Gender, and Sexuality Studies: Gender Focused		<b>Prerequisites:</b> Junior standing.	
<b>Prerequisite:</b> CO 0130; junior or senior standing.		This course will explore the dialectical tensions between the need for safe and effective products/services and the expectations for corporations to generate profits and dividends for their stakeholders. This course will use an applied ethics lens to examine the organizational, marketing, advertising, and corporate communication to clients, consumers, vendors, and investors. The content and ethical implications of marketing communication (from a variety of organizational perspectives: healthcare, economics, cultural, etc.) on expected and unintended outcomes will also be discussed and analyzed.	
This course has three related aims: to introduce the theoretical and academic study of media audiences, to introduce students to qualitative field research methods, and to prepare students to engage with the current media industry through an examination of applied audience research. Recognizing that the study of media audiences is an important theoretical as well as practical endeavor, we will consider how audiences have been studied historically, in the academy, and within media industries.		<b>CO 0344 Interracial Communication</b>	<b>3 Credits</b>
<b>CO 0339 Topics in Media Theory and Criticism</b>	<b>3 Credits</b>	<b>Attributes:</b> BSFC Black Studies Focus Course, UDIV U.S. Diversity	
<b>Prerequisites:</b> CO 0130; junior or senior standing.		<b>Prerequisite:</b> CO 0200; junior or senior standing.	
This course provides an opportunity to examine in depth particular media theories or to conduct careful media analysis and criticism. The course emphasizes contemporary theoretical and/or methodological approaches to the close analysis of television, radio, newspaper, the Internet, and/or magazine texts so as to understand the ways meaning is constructed and situated within the larger social context. Topics may include mass media and the public sphere; television criticism; sex, lies, and videos; and children and the media. Students may take this course up to two times with different topics.		This course focuses on the ways in which communication theories and research can improve the existing state of race relations in the United States. Throughout the course, up-to-date issues that surface locally and nationally in the media that illustrate the relevance of improved interracial communication will be addressed through class discussion and linked to course assignments. Using case studies to explore interracial exchanges in close relationships, at the workplace, and reflected in social media, students will link theory with practical applications in an effort to better understand interracial communication.	
<b>CO 0340 Conflict Communication</b>	<b>3 Credits</b>	<b>CO 0345 Relational Communication</b>	<b>3 Credits</b>
<b>Prerequisites:</b> CO 0200 or CO 0220; junior or senior standing.		<b>Prerequisites:</b> CO 0200 or CO 0220; junior or senior standing.	
Conflict is a natural part of human life that has a variety of potential consequences. Although conflict can be disruptive and destructive, it can also be constructive and lead to improved adjustment and better decisions. The course is designed to offer you opportunities to enhance and improve your techniques and skills in managing conflict and moving them in a productive direction. The course examines the dynamics of human conflict across a variety of settings from personal relationships to the workplace, with special attention to the communication processes that escalate, manage, and mediate conflict.		Close relationships can bring us a great deal of joy, happiness, and love, but unfortunately they can also be sources of frustration, pain, and conflict. This course is designed to help us understand the critical role of communication in developing, maintaining, and terminating close relationships with romantic partners, friends, and family members. The course examines the most current research and theory on a variety of topics that are central to understanding and maintaining close relationships, with a focus on attraction, attachment, conflict, power, emotion, transgression, reconciliation, and termination.	

<b>CO 0346 Communication and Spirituality</b> <b>Prerequisites:</b> CO 0200; junior or senior standing. This course engages a critical understanding of the way in which spirituality is constructed through communication. Using the unique perspectives and empirical tools of the communication discipline, the course seeks to familiarize students with the variety of ways in which spirituality has been studied both within and outside of religion. Examining various contexts that engage spiritual discourses, from interpersonal communication settings to organizational, health and mass mediated settings, students reflect on the potential for spiritual discourses to transform individuals and society, and consider their own participation in such discourses.	<b>3 Credits</b>	<b>CO 0399 Internship</b> <b>Prerequisite:</b> Junior or senior standing. Communication internships provide students with first-hand knowledge about the field of work, allow them to experience new professional activities and relationships, help them apply conceptual knowledge and skills in communication in the work environment, and allow them to experience the problems and successes of efficiently and effectively communicating within a complex organization. One three-credit internship course can be used toward the major. Students may take an internship twice for credit. Students must have a GPA of 2.8 or higher.	<b>1-3 Credits</b>
<b>CO 0347 Communication in Healthcare Organizations</b> <b>Attributes:</b> HSSS Health Studies: Social Science <b>Prerequisites:</b> Junior standing. This course explores the organizational communication of modern U.S. healthcare organizations, including: Managed Care, Insurers, Healthcare Systems, and Medicare/Medicaid. The primary purposes of this course are to provide an understanding of how communication within, and from healthcare corporations impacts the organization, its employees, the health of its customers and U.S. healthcare delivery. This course will evaluate and explore the multidimensional processes involved in healthcare organizations and how communication is critical to their success or failure and to the health and well-being of their customers.	<b>3 Credits</b>	<b>CO 0400 Communication Philosophies, Theories, and Research Traditions</b> This class is designed to provide an introduction for the graduate student to the diverse and voluminous research in the area of human communication. As such, it covers an extremely wide range of intellectual, scientific, and historical material. It is a survey course, but we will deal with selected areas in depth. This course will not only introduce the areas of human communication theory and research, but it will also introduce the process of theorizing and thinking about communication. Therefore, the nature of theory, research, and intellectual inquiry is an important part of this course.	<b>3 Credits</b>
<b>CO 0348 Health Risk Communication</b> <b>Attributes:</b> EVAP Environmental Studies: Applied Professional Skills <b>Prerequisites:</b> Junior standing. Risk Communication examines the communication theories and research that underlie the study of risky behaviors and the development of effective responses to perceived risks. This course provides an understanding of how communication impacts our assessment of risk, critical thinking and policy making about risk prevention and response, and the creation of preventive programs and campaigns. Students will evaluate and explore the multidimensional processes involved in researching and responding to sustained risks or emergency situations, utilize communication theory to develop appropriate campaigns, and assess their success or failure. Topics may focus on health and environmental risks, security, or disaster response.	<b>3 Credits</b>	<b>CO 0410 Perspectives and Theories in Organizational Communication</b> This course is intended to highlight organizations and how they are created, maintained and changed through social interaction. Communicating by organizational members is essentially organizing. The course examines organizational communication from both functional and constructivist perspectives.	<b>3 Credits</b>
<b>CO 0349 Special Topics (Shell)</b> <b>Prerequisites:</b> CO 0200, CO 0220, CO 0240; junior or senior standing. This course focuses on a specific context where social identities are negotiated through particular discursive practices, emphasizing the verbal and nonverbal communication behaviors that are appropriate in this context and through which people constitute and perform their identities. The course examines symbolic practices and communication norms in families, self-help groups, television talk shows, cyber communities, social movements, and genders/sexualities, using approaches such as symbolic convergence theory, social constructivism, ethnography of communication, and conversational analysis. Students may take this course up to two times with different topics.	<b>3 Credits</b>	<b>CO 0420 Communication Research Design and Methodologies</b> A detailed review of research methods and procedures relevant to measuring the phenomena and characteristics of human communication behavior in a variety of contexts and relationships. Quantitative, qualitative, and critical approaches are reviewed and practiced in course projects. Applications of research methods to describing and evaluating communication are studied.	<b>3 Credits</b>
<b>CO 0397 Independent Study</b> <b>Prerequisite:</b> Junior or senior standing. This course allows students to thoroughly investigate communication concepts, theories, or issues presented in a previously completed communication course. Independent study does not substitute for any other required course(s) in the communication program and students' investigations must be scholarly in intent. An independent study may be taken no more than twice. Enrollment by permission only.	<b>1-3 Credits</b>	<b>CO 0430 Written Communication</b> Explores how written communication by its very nature is drastically different from verbal and other nonverbal forms of communication. Considers the effect a printable form of communication has on the message, the sender and receiver, and the potential legal issues associated with written communication. This course focuses on the impact of written messages for intrapersonal, interpersonal, small group, organizational, intercultural, and mass media communication. Examines the historical transformation in content, style, and perception from letters, memos, and notes to the evolving electronic formats for written communication including: e-mails, blogs, chat rooms, e-networking/e-cultures, wikis, etc.	<b>3 Credits</b>
		<b>CO 0431 Media Law and Institutions</b> The course concentrates on the legal and economic environment of U.S. mass media. Topics include examination of major doctrines of media law, organization and operation of individual media industries, the economic structure of U.S. media markets, the role of media watchdogs and advocacy organizations, as well as media users' forms of collective action. The course's content is approached through an institutional analysis perspective, intended to facilitate students' understanding of institutions as dynamic points of confluence for organizations, norms, and individual agents. As part of the course's requirements, students conduct a research project exploring recent developments in media regulation and/or decision-making processes within one of the major media institutions covered during the semester.	<b>3 Credits</b>

**CO 0440 Ethics and Communication****3 Credits**

Coursework includes a comprehensive overview of the development of ethics from ancient to contemporary thought and practices. Emphasis is placed on the ethical agenda, problems, and responsibilities of contemporary organizations in diverse cultures. Case studies and student research focus on contemporary issues in the ethical communicative performance. The relationship between Jesuit philosophy and applied communication work in organizations is also explored.

**CO 0448 Health Risk Communication****3 Credits**

This is a one-week, predominantly face-to-face course that includes online interactions. This course examines the theories and research that underlie the study of health risk communication and behaviors. The primary purpose of this course is to provide an understanding of how communication impacts our assessment of health risk behaviors, critical thinking, the creation of preventive programs, and outcomes. This course will evaluate and explore the multidimensional processes involved in researching the communication of risky behaviors and how organizations can utilize health communication theory to develop appropriate campaigns and assess their success or failure.

**CO 0497A Gender and Organizing****3 Credits**

Gender is central to how we organize our lives. The way we communicate about gender can enhance or undermine all of our relationships. The purpose of this seminar is to augment, or even change, our understanding of the relationship between gender, communication, and organizations. Specifically, the goal for this course is to use a combination of scholarly essays and journal articles as well as popular news media to examine critically topics such as femininity, masculinity, and sexuality within the following contexts: education, sports, politics/government, leadership, the military, and other professions and organizations. Undergraduate equivalent: CO 0323.

**CO 0497B Risk Communication****3 Credits**

Risk Communication examines the communication theories and research that underlie the study of risky behaviors and the development of effective responses to perceived risks. This course provides an understanding of how communication impacts our assessment of risk, critical thinking and policy making about risk prevention and response, and the creation of preventive programs and campaigns. Students will evaluate and explore the multidimensional processes involved in researching and responding to sustained risks or emergency situations, utilize communication theory to develop appropriate campaigns, and assess their success or failure. Topics may focus on health and environmental risks, security, or disaster response. Undergraduate equivalent: CO 0348.

**CO 0497C Technoculture and Information Society****3 Credits**

This course explores phenomena, trends, and theories related to emerging information and communication technologies (ICTs), as well as relationships among those technologies, socio-economic structures, "old" media institutions, media users, and culture. Through a combination of theoretical and practical explorations that emphasize historical, ethical, and critical thinking, the course introduces students to academic and non-academic perspectives on new media. Undergraduate equivalent: CO 0342.

**CO 0497D End of Life Communication****3 Credits**

This course focuses on the only reality for every human being: death. However, in spite of its certainty, American culture tends to minimize or ignore discussions of death and provides little insight into effective communication strategies for healthcare providers, family members, friends, and lovers. The complexities of this unique communication will be assessed vis-à-vis an applied approach that includes a service-learning opportunity at a 51-bed hospice. In addition, the course will include self-reflection, autoethnography, an exploration of scholarly research in palliative communication, and scholarly interaction between students in the classroom and the hospice setting. Undergraduate equivalent: CO 0341.

**CO 0497E Comparative Media Systems****3 Credits**

This course provides a comparative overview of the economic and regulatory structure of media industries worldwide. By exploring the ways in which different institutional frameworks, structural factors, and audiences' agency affect mass communication within and across regional borders, this course offers a comprehensive picture of common and interdependent processes underlying the individual development of media industries in each region. Students learn about emerging market and research trends concerning international media. Issues related to free flow of messages, social responsibility, universal access, intellectual commons, participatory communication, developmental communication, and cultural diversity in the global exchange of media messages through discussion of current, real-life cases, as well as through design and execution of an original research project. Undergraduate equivalent: CO 0334.

**CO 0497F Organizational Communication and Advertising****3 Credits**

This course will highlight how organizations market, promote, and advertise their brands. The importance of advertising for organizations, consumers, and the U.S. economy will also be a central focus of this class. Furthermore, the critical roles of research, audience analysis, persuasion, and effective communication in altering consumers' perceptions will be explored from both theoretical and applied perspectives. The value of deconstructing ads from a consumer, brand manager, and advertiser's viewpoint will be stressed and explored. In addition, the historical and contemporary ethical implications of advertising, especially in health care and for children, will be closely examined. Undergraduate equivalent: CO 0325.

**CO 0497G Globalization, Media, and Culture****3 Credits**

Globalization, a complex and transformative process that influences our lives at every level, has produced the increased flow of goods, capital, people, knowledge, images, crime, pollutants, drugs, fashion, viruses, and beliefs across territorial and ideological boundaries of all kinds. This course focuses on the role of communication media (radio, television, film, computers) in the processes of globalization and examines the impact of globalization on cultural representations, cultural identity, and international relations. Undergraduate equivalent: CO 0335.

**CO 0497H Visual Communication****3 Credits**

This course provides a broad introduction to the structure, conventions, and effects of visual communication with a theoretical emphasis on media ecology. The first half is devoted to understanding formal properties including examining the basics of vision, techniques for visual persuasion, and the language of cinematography and editing. The second half surveys more controversial issues like digital manipulation and violence and sex in media. Course material and assignments will be drawn from media domains including advertising, photo/video journalism, and video games. Students will read both theoretical contributions to and empirical investigations of the field. Undergraduate equivalent: CO 0337.

**CO 0497I Media Audiences****3 Credits**

This course has three related aims: to introduce the theoretical and academic study of media audiences, to introduce students to qualitative field research methods, and to prepare students to engage with the current media industry through an examination of applied audience research. Recognizing that the study of media audiences is an important theoretical as well as practical endeavor, we will consider how audiences have been studied historically, in the academy, and within media industries. Undergraduate equivalent: CO 0338.

**CO 0497J Crisis Communication****3 Credits**

This course discusses key concepts, principles, and best practices of crisis communication. Intersections with other areas of the communication field will also be addressed, including public relations and organizational and risk communication. Students will understand the role strategic communication, power, stakeholders, and organizational culture play during a crisis. This course analyzes case studies of previous crises and will ask students to provide their own plans and critical assessments of recent crises. Undergraduate equivalent: CO 0324.

**CO 0497K Ethics and Medical Marketing Communication****3 Credits**

This course will explore the dialectical tensions between the need for safe and effective products/services and the expectations for corporations to generate profits and dividends for their stakeholders. This course will use an applied ethics lens to examine the organizational, marketing, advertising, and corporate communication to clients, consumers, vendors, and investors. The content and ethical implications of marketing communication (from a variety of organizational perspectives: healthcare, economics, cultural, etc.) on expected and unintended outcomes will also be discussed and analyzed. Undergraduate equivalent: CO 0343.

**CO 0497L Social Media****3 Credits**

At the turn of the millennium, social media was still an unknown term; today, it is inescapably altering the landscape of our world and our lives in complex ways. This course examines social media by historicizing what is timeless about it and charting its new frontiers for humankind. Through a mix of scholarly, journalistic, and professional industry readings on social media, we will explore how culture, community, and identity are being reshaped alongside politics, business, and (what was once called) the mass communication industry. Undergraduate equivalent: CO 0336.

**CO 0497M Communication Processes in Organizations:****Negotiation****3 Credits**

This course reviews and explores, through simulation and experiential learning, negotiation as a communication process in and among organizations. It focuses on core concepts and approaches to negotiation, and exercises the negotiative process in a contemporary context. In this course, which is open to majors and minors in communication and other disciplines related to the study of humans and their organizations in the work world, participants carry out individual and team work, and contribute on time and proportionately to team preparations and class simulations. Undergraduate equivalent: CO 0321.

**CO 0497N Relational Communication****3 Credits**

Close relationships can bring us a great deal of joy, happiness, and love, but unfortunately they can also be sources of frustration, pain, and conflict. This course is designed to help us understand the critical role of communication in developing, maintaining, and terminating close relationships with romantic partners, friends, and family members. The course examines the most current research and theory on a variety of topics that are central to understanding and maintaining close relationships, with a focus on attraction, attachment, conflict, power, emotion, transgression, reconciliation, and termination. Undergraduate equivalent: CO 0345.

**CO 0497O Conflict Communication****3 Credits**

Conflict is a natural part of human life that has a variety of potential consequences. Although conflict can be disruptive and destructive, it can also be constructive and lead to improved adjustment and better decisions. The course is designed to offer you opportunities to enhance and improve your techniques and skills in managing conflict and moving them in a productive direction. The course examines the dynamics of human conflict across a variety of settings from personal relationships to the workplace, with special attention to the communication processes that escalate, manage, and mediate conflict. Undergraduate equivalent: CO 0340.

**CO 0497P Interracial Communication****3 Credits**

This course explores current trends in literature on the topics of race relations, communication styles and patterns, communication theory, and the social construction of race along with its influence on how individuals from different races communicate. Throughout the course, up-to-date issues that surface locally and nationally in the media that illustrate the relevance of improved interracial communication will be addressed through class discussion and linked to course assignments. Using case studies to explore interracial exchanges in close relationships, at the workplace, and reflected in social media, students will link theory with practical applications in an effort to better understand interracial communication. Undergraduate equivalent: CO 0344.

**CO 0497Q Misinformation in Digital Media****3 Credits**

This course critically examines the causes for, and the consequences of, the proliferation of false and misleading information in online spaces. While the ubiquity of false information online is often talked about as if it is random or inevitable, this class will detail the specific mechanisms by which false information is produced, spread, and consumed. More importantly, it will contextualize the practice within larger social, culture, and geopolitical environments and connect it to the larger history of misinformation and media technologies. Finally, the course will prepare students to combat false and misleading information encountered in their own media diets. Undergraduate equivalent: CO 0330.

**CO 0497R Health Risk Communication****3 Credits**

Risk Communication examines the communication theories and research that underlie the study of risky behaviors and the development of effective responses to perceived risks. This course provides an understanding of how communication impacts our assessment of risk, critical thinking and policy making about risk prevention and response, and the creation of preventive programs and campaigns. Students will evaluate and explore the multidimensional processes involved in researching and responding to sustained risks or emergency situations, utilize communication theory to develop appropriate campaigns, and assess their success or failure. Topics may focus on health and environmental risks, security, or disaster response. Undergraduate equivalent: CO 0348.

**CO 0497S Palliative Care Communication in the United States and Ireland****3 Credits**

This is an interdisciplinary, intercultural course that applies a bifocal (communication and healthcare) lens to the study of palliative care. The course is intended to explore this relatively new area of health care delivery (quality of life vs. cure) and the critical role communication plays in accomplishing the interdependent goals of providers, patients, and families in the United States and Ireland. Since palliative care should be for all chronically- and/or terminally-ill patients across the life cycle, students will critically examine, from both health care and communication perspectives, the differences in palliative care delivery in the United States and Ireland. Undergraduate equivalent: CO 0326.

**CO 0498 Communication Practicum****3 Credits**

Communication Practicum is a semester-long internship or other type of placement carried out by graduate students in Communication in local, national or inter-national contexts. These placements are determined in conjunction with, and carried out under the supervision of, a faculty member. Practicums allow students to gain professional experience; where possible these activities should relate directly to thesis projects and other long-term academic interests. Students must commit to a minimum of 120 hours at an approved work site (internships cannot be done at a student's place of employment) and are also responsible for completing additional academic requirements.

**CO 0500 Interpersonal Communication****3 Credits**

This course is a critical examination of the major theories of interpersonal communication and an exploration of interpersonal communication research in relational and organizational contexts. Student projects will use social science research methods to examine factors influencing interpersonal communication such as language, perception, nonverbal behavior, power, status, and gender roles.

**CO 0502 Small Group and Team Communication****3 Credits**

This course is a study of the communication dimensions and dynamics of small groups, teams, and networks of organizational actors. Coursework and projects focus on interpersonal processes and structures for tasking and relating effectively in organizational settings. The special characteristics of virtual team and technology-enhanced decision-making work are investigated.

**CO 0522 Communication and Organizational Leadership****3 Credits**

This course focuses on the communication behaviors that constitute leadership. Models explore interpersonal influence, power in organizations, leading decision-making teams and task-oriented groups, and developing situational leadership skills. Early and contemporary research perspectives on leadership are reviewed and critically analyzed. Student projects include case studies and reviews of role-model leaders.

**CO 0524 Negotiation and Conflict Management: Communication****Approaches****3 Credits**

This course explores a selection of conflict situations with particular emphasis on organizational and community settings. Theoretical exploration focuses on the nature of conflict, and negotiation and dialogue as communication processes. The course privileges win-win and dialogic approaches and provides experiential learning in simulations in which teams of students negotiate detailed and practicable outcomes for resolving contemporary organizational and societal problems.

**CO 0530 Media Theory and Criticism****3 Credits**

This course introduces graduate students in Communication to the study of media in the US. It focuses on the major theoretical trajectories that have shaped the field, empirical research that has emerged as canonical, and contemporary critical approaches that inform not just how we study media as scholars, but also how we understand media as consumers.

**CO 0532 Nonprofit Media****3 Credits**

This course focuses on public relations, advertising and marketing strategies for nonprofit and public service organizations. The course begins with a broad overview of media industries and the changing landscape of media technologies and then considers how nonprofit and other public service organizations can best leverage resources to effectively communicate with intended audiences. Both theoretical and practical, this course provides graduate students with historical understandings of how media industries are organized and how not for profit organizations interface with profit-driven media businesses. Special attention is paid to how social media platforms and other digital technologies impact communication strategies.

**CO 0535 Globalization, Communication, and Culture****3 Credits**

Globalization has produced the increased flow of goods, capital, people, knowledge, images, crime, pollutants, drugs, fashion, viruses, and beliefs across territorial and ideological boundaries of all kinds. This course is focused on organizational communication in a global economic environment and helps students prepare for cross-cultural management issues, decision-making for multinational organizational effectiveness, and a consideration of global economic and labor issues.

**CO 0537 New Media Studies****3 Credits**

The digital and social media that have emerged in the past decade are reshaping our world in profound ways - this course explores those developments in light of both extended history and the contemporary moment. Through a mix of scholarly and journalistic readings, we will inquire into the ways in which culture, community, and identity are undergoing change alongside marketing, politics, and the "mass" communication industries. Our focus will include a wide variety of new media platforms, practices, and issues drawn from social networking, mobile, and online content, as we cultivate a critical lens on society's increasing digitalization (and its discontents).

**CO 0539 Advertising and Consumer Communication****3 Credits**

This course takes a critical look at the intersection of consumer culture, advertising, marketing and communication. This course also considers the history of advertising, marketing and public relations in the US as a starting point for better understanding of contemporary practices in these fields. Central in this examination is a consideration of how race, ethnicity, gender and sexuality often map (and are mapped onto) specific consumption patterns. Further, this course examines how advertising and related communication practices happen within a specific political-economic environment and how technology is quickly changing how theory translates into practice in these fields. While advertising, marketing and public relations are undoubtedly a part of our consumer culture, this course is not exclusively about how to "do" these activities, but rather how these communication practices impact our culture. Finally this course will ask students to critically reflect on consumption in terms of global, environmental and labor concerns.

**CO 0540 Intercultural Communication****3 Credits**

This course examines the relationship between communication behavior and cultural factors such as nationality, ethnicity, race, gender, class, sexuality, and religion. We will focus on cross-cultural sense-making, relationships, problem-solving, and organizing with particular application to business, education, and health care encounters. The course reviews the social science research of variations in normative communication behavior, as well as the theoretical approaches to understanding the relationship between worldview/cultural values and preferred communication practices. Examples will be used from a variety of nations, as well as those within the diverse cultural landscape of contemporary United States.

**CO 0545 Race, Identity, and Representation****3 Credits**

Rooted in a constitutive approach to communication, this course advances the notion that identities are not bound within the self, but rather, are socially negotiated through communication practices and are situated firmly in cultural and historical settings. Specifically, this course examines how racial identities emerge, reform, and are redirected through discourse. In addition to exploring how racial categorizations are socially constructed, this course attends to contemporary representations of race within media, education, and health care systems. Further, students in this course will interrogate social issues involving structural inequality, privilege, power, and hegemony.

**CO 0547 Healthcare Organizational Communication****3 Credits**

This course examines the processes and complexities of modern healthcare organizations (hospitals, nursing homes, insurers, associations, pharmaceutical and medical device manufacturers, non-profits, marketing, advertising, and PR firms, provider education institutions, etc.). The primary purpose of this course is to provide an understanding of how communication within, to, and from healthcare organizations impacts the company, its employees, stakeholders, customers, federal and local governments, and U.S. healthcare delivery. This course will evaluate and explore the multidimensional processes utilized by healthcare organizations and how communication is critical to their successes or failures and to the health and well being of their customers.

**CO 0548 Health Communication****3 Credits**

Communicating to people about health has become one of the most active areas of communication research and practice. This course focuses on the theory and practice of communication in health settings. Topics covered include doctor-patient communication, health campaigns, effects of media on health, intercultural issues in health communication and risk communication in relation to health practices.

**CO 0559 Special Topics in Communication Research****3 Credits**

This course is taught when a particular faculty member has a compelling proposal for a topic that has been approved by the department. Preference will be given to topics related to contemporary issues or to a current faculty research project.

**CO 0560 Thesis Proposal****3 Credits**

This course operates as an independent study experience under the supervision of a faculty advisor and the secondary supervision of one additional faculty reader. Each proposal and thesis should have a total of two readers, the faculty advisor and one additional reader from the Communication Department who has taught the student. At the student's request, a faculty member from another department who has taught the student in a graduate course could serve as a third reader. In unusual circumstances (e.g., a conflict between the faculty advisor and the second reader) a third reader would be assigned by the Graduate Program Director. The thesis will be orally presented to the faculty.

**CO 0561 Thesis Research****3 Credits**

This course operates as an independent study experience under the supervision of a faculty advisor and the secondary supervision of one additional faculty reader. Each proposal and thesis should have a total of two readers, the faculty advisor and one additional reader from the Communication Department who has taught the student. At the student's request, a faculty member from another department who has taught the student in a graduate course could serve as a third reader. In unusual circumstances (e.g., a conflict between the faculty advisor and the second reader) a third reader would be assigned by the Graduate Program Director. The thesis will be orally presented to the faculty.

**CO 0562 Continuing Thesis Research****3 Credits****CO 0570 Project Proposal****3 Credits**

This course operates as an independent study experience under the supervision of a faculty advisor and the secondary supervision of one additional faculty reader. Each proposal and project should have a total of two readers, the faculty advisor and one additional reader from the Communication Department who has taught the student. At the student's request, a faculty member from another department who has taught the student in a graduate course could serve as a third reader. In unusual circumstances (e.g., a conflict between the faculty advisor and the second reader) a third reader would be assigned by the Graduate Program Director. The project will be presented to the faculty and should have some kind of public presentation or impact.

**CO 0571 Independent Project****3 Credits**

This course operates as an independent study experience under the supervision of a faculty advisor and the secondary supervision of one additional faculty reader. Each proposal and project should have a total of two readers, the faculty advisor and one additional reader from the Communication Department who has taught the student. At the student's request, a faculty member from another department who has taught the student in a graduate course could serve as a third reader. In unusual circumstances (e.g., a conflict between the faculty advisor and the second reader) a third reader would be assigned by the Graduate Program Director. The project will be presented to the faculty and should have some kind of public presentation or impact.

**CO 0572 Continuing Project****3 Credits****CO 0598 Independent Study****3 Credits**

**Prerequisites:** Graduate Director's approval and a communication faculty member's sponsorship.

This course allows students to thoroughly investigate communication concepts, theories, or issues presented in a previously completed graduate communication course. Independent study does not substitute for any other required course(s) in the graduate program and students' investigations must be scholarly in intent. An independent study may be taken only once.

## Computer Engineering (CR)

**CR 0245 Digital Design I****3 Credits**

**Corequisite:** CR 0245L.

An introduction to computer hardware design. Topics include: digital design principles, Boolean algebra, combinational logic design, sequential logic design, registers, counters, memory, multiplexers, finite state machines, radix conversion, and programmable logic devices. Students learn to write, implement, and simulate elementary digital design.

**CR 0245L Digital Design I Lab****1 Credit**

**Fee:** \$80 Engineering Lab Fee

**Corequisite:** CR 0245.

This lab course covers the practical aspects of digital logic design. Students design and implement logic circuits using techniques taught in CR 0245. Students gain experience using state of the art design software and development boards, which use modern field programmable gate array (FPGA) technology.

**CR 0246 Digital Electronics Design II****3 Credits**

**Prerequisite:** CR 0245.

This course examines computer architecture implemented using a hardware design language and programmable logic devices. Students learn the VHDL hardware description language, and learn to use modern design, simulation, and synthesis software. Students design, verify, build and test digital logic circuits using industry standard development boards, and field programmable gate array (FPGA) technology.

**CR 0320 Computer Networks****Prerequisites:** CS 0131, MA 0351.

This course covers principles of networking and network programming. Topics include OSI layers, elementary queuing theory, protocol analysis, multi-threading, command-line interpreters, and monitors. Students write a distributed computing system and check their performance predictions with experiments.

**3 Credits****CR 0325 Computer Graphics****3 Credits****Prerequisite:** CS 0131.

This course supports the visualization and computer systems domain, offering an introductory treatment to two-dimensional and three-dimensional computer graphics concepts. Students write computer games and employ their knowledge to imbue them with realism. High performance rendering uses the latest in cutting edge hardware-accelerated graphics processors.

**CR 0331 Biomedical Signal Processing****3 Credits****Prerequisites:** CS 0131 or CS 0142 or SW 0407; MA 0146.

This course presents an overview of different methods used in biomedical signal processing. Signals with bioelectric origin are given special attention and their properties and clinical significance are reviewed. In many cases, the methods used for processing and analyzing biomedical signals are derived from a modeling perspective based on statistical signal descriptions. The purpose of the signal processing methods ranges from reduction of noise and artifacts to extraction of clinically significant features. The course gives each participant the opportunity to study the performance of a method on real, biomedical signals.

**CR 0332 Biomedical Imaging****3 Credits****Prerequisite:** CR 0331.

The course presents the fundamentals and applications of common medical imaging techniques, for example: x-ray imaging and computed tomography, nuclear medicine, magnetic resonance imaging, ultrasound, and optical imaging. In addition, as a basis for biomedical imaging, introductory material on general image formation concepts and characteristics are presented, including human visual perception and psychophysics.

**CR 0333 Biomedical Visualization****3 Credits****Prerequisite:** CS 0131.

This course is an introduction to 3-D biomedical visualization. Various technologies are introduced, including UltraSound, MRI, CAT scans, PET scans, etc. Students will learn about spatial data structures, computational geometry and solid modeling with applications in 3-D molecular and anatomical modeling.

**CR 0346 Computer System Architecture****3 Credits****Prerequisite:** CR 0245.

This course introduces the machine language and various components of a computer hardware in modern computer systems. The course focuses on CPU, memory, bus, cache, I/O module, internal data representation, and instruction set design. It also covers pipelining, superscalar architecture, reduced instruction set computers, parallel architectures, and interconnection networks.

**CR 0382 Independent Study****3 Credits**

This course includes supervised reading and research. Available only by pre-arrangement with the instructor.

# **Computer Science (CS)**

**CS 0101 Introduction to Computing****3 Credits**

This course introduces the concept of computing to students with no prior computer experience. The main ideas of computing are explored and students learn the most essential information about computers and technology in today's digital world and the latest computing trends and skills with live code exercises. Students will explore key ideas of coding at an introductory level. Topics include computer architecture, digital media, network, web, big data, computer security, and basic computer programming.

**CS 0131 Fundamentals of Programming****3 Credits****Attributes:** BUEL Business Elective, ENPC Digital Journalism Production Component

This course introduces the object-oriented programming. Topics include data types, control structures, arrays, I/O, file handling, GUI, and the OOP concept of encapsulation, inheritance, polymorphism, packages, interfaces, and inner classes.

**CS 0152 Introduction to Computer Game Modeling****3 Credits**

This is an introductory computer games modeling course which examines the basics of computer game design and visual effects. Students will use graphics software modeling packages to create characters and visual effects, and to develop a computer game idea, including storyline and plots. Basic programming techniques may also be taught.

**CS 0231 Programming Workshop****3 Credits****Corequisite:** CS 0231L or CS 0231P.**Prerequisite:** CS 0131.

This course covers advanced programming concepts in one or more current programming languages, including syntax and theories. It prepares students for adapting to various programming environments and coding in an efficient manner. Lab work will accompany the course.

**CS 0231L Programming Workshop Lab****1 Credit****Corequisite:** CS 0231.

This lab accompanies the Programming Workshop course for hands-on practice with course concepts.

**CS 0231P Programming Workshop PLG****0 Credits****Corequisite:** CS 0231.

This peer learning group accompanies the Programming Workshop course for hands-on practice with course concepts.

**CS 0232 Data Structures****3 Credits****Corequisite:** CS 0232L or CS 0232P.**Prerequisite:** CS 0131.

This course covers abstract data structures such as queues, stacks, heaps, linked lists, trees, graphs, hash tables and sorting. Students apply data structure concept in advanced programming.

**CS 0232L Data Structures Lab****1 Credit****Corequisite:** CS 0232.

This lab accompanies the Data Structures course for hands-on practice with course concepts.

**CS 0232P Data Structures PLG****0 Credits****Corequisite:** CS 0232.

This peer learning group accompanies the Data Structures course for hands-on practice with course concepts.

<b>CS 0250L Computer Science Sophomore Clinic</b> <b>Corequisite:</b> SW 0304. This sophomore clinic provides faculty guidance and supervision beyond the scope of existing courses. Students learn how to develop and structure their deliverables, as well as how to use computer science tools in the context of real-world or research projects.	<b>1 Credit</b>	<b>CS 0355 Artificial Intelligence</b> <b>Prerequisite:</b> CS 0232. This course, which examines computational and theoretical accounts of human intelligence, includes knowledge representation, commonsense reasoning, planning, natural language understanding, machine learning, and deep learning.	<b>3 Credits</b>
<b>CS 0331 Operating Systems</b> <b>Prerequisite:</b> CS 0232. This course introduces the internal operation of modern operating systems. The topics cover a brief history of operating systems, the major components of modern operating systems, and the object-oriented methodology on UNIX-like platform. Various UNIX tools will be used in the course and participants study examples using object-oriented programs as well as large system integration by object-oriented methodology.	<b>3 Credits</b>	<b>CS 0397 Internship</b> The internship program provides computer science majors with an opportunity to gain practical, career-related experience in a variety of supervised field settings. Internships can be in any one of a number of areas, such as software applications or hardware applications. Interns spend a minimum of 10 hours per week in on-site work, complete a required academic component specified by a faculty advisor, and satisfy the University Internship Policy requirements. Students may register for internships during the summer session and/or one to two full semesters and may earn a maximum of six internship credits. Open to seniors only; requires approval of the field placement supervisor and the School of Engineering. An internship may not replace a computer science elective to fulfill the requirement for a major in computer science.	<b>1-3 Credits</b>
<b>CS 0333 Introduction to Cybersecurity</b> <b>Prerequisite:</b> CS 0231. In this course, students will be given an extensive overview of the various components of Cybersecurity including software development, operating systems, databases, and networks. They will learn Cybersecurity concepts, issues, and tools that are critical in solving problems in the computing security domain. The course will use lectures, reading assignments, and interactive lab exercises to re-enforce the concepts that are introduced.	<b>3 Credits</b>	<b>CS 0398 Internship</b> The internship program provides computer science majors with an opportunity to gain practical, career-related experience in a variety of supervised field settings. Internships can be in any one of a number of areas, such as software applications or hardware applications. Interns spend a minimum of 10 hours per week in on-site work, complete a required academic component specified by a faculty advisor, and satisfy the University Internship Policy requirements. Students may register for internships during the summer session and/or one to two full semesters and may earn a maximum of six internship credits. Open to seniors only; requires approval of the field placement supervisor and the School of Engineering. An internship may not replace a computer science elective to fulfill the requirement for a major in computer science.	<b>1-3 Credits</b>
<b>CS 0342 Theory of Computation</b> <b>Attributes:</b> MAEL Math Major Elective Course <b>Prerequisite:</b> MA 0231. This course explores what computers can and can't do by examining simple mathematical models of computation. Topics include finite state machines, regular expressions, non-determinism, pushdown automata, context-free grammars, and Turing machines. We will see that there are limits to what computers can do, and in doing so, we will learn about what a computer really is; you may be surprised.	<b>3 Credits</b>	<b>CS 0343 Design and Analysis of Algorithms</b> <b>Prerequisite:</b> CS 0232. This course introduces various algorithms and analyzes the complexity and efficiency of the algorithms. Topics cover classic and heuristic algorithms, searching, sorting and parsing techniques, and algorithm complexity analysis.	<b>3 Credits</b>
<b>CS 0350L Computer Science Junior Clinic I</b> <b>Corequisite:</b> SW 0300. This first junior clinic provides faculty guidance and supervision beyond the scope of existing courses. Students learn how to develop and structure their deliverables, as well as how to use computer science tools in the context of real-world or research projects.	<b>1 Credit</b>	<b>Counseling (CN)</b>	
<b>CS 0351L Computer Science Junior Clinic II</b> <b>Corequisite:</b> SW 0301. This second junior clinic provides faculty guidance and supervision beyond the scope of existing courses. Students learn how to develop and structure their deliverables, as well as how to use computer science tools in the context of real-world or research projects.	<b>1 Credit</b>	<b>CN 0098 Comprehensive Exam in School Counseling</b> The Counselor Preparation Comprehensive Exam (CPCE) is a standardized multiple choice exam with 136 questions that requires School Counseling candidates to demonstrate understanding and mastery of content reflecting the eight core CACREP areas. It is highly recommended that candidates complete their comprehensive exam during the semester prior to the one in which they plan to graduate.	<b>0 Credits</b>
<b>CS 0354 Theory of Programming Languages</b> <b>Prerequisite:</b> CS 0232. Topics in this course include the design of programming languages; organization, control structures, data structures; run time behavior of programs; and formal specification and analysis of programming languages. The course includes a comparative survey of several significantly different languages.	<b>3 Credits</b>	<b>CN 0099 Comprehensive Exam in Clinical Mental Health Counseling</b> The Counselor Preparation Comprehensive Exam (CPCE) is a standardized multiple choice exam with 136 questions that requires Clinical Mental Health Counseling candidates to demonstrate understanding and mastery of content reflecting the eight core CACREP areas. It is highly recommended that candidates complete their comprehensive exam during the semester prior to the one in which they plan to graduate.	<b>0 Credits</b>
		<b>CN 0403 Seminar in Special Topics (Shell)</b> This course explores advanced topics in the field of counselor education. Topics vary each term, are determined by the counselor education department chair, and reflect current trends and themes in the field of counseling.	<b>3 Credits</b>

**CN 0410 Grief and Loss Counseling****3 Credits**

An introductory course in the exploration of conceptual models and clinical interventions related to grief and loss. The focus of this course is on developing sensitivity, knowledge, and practical skills working with grief, bereavement, and end of life issues in counseling and cross-cultural approaches. It is designed to inform students how loss is a pervasive, natural process of life and with skilled understanding and intervention can provide healing, meaning, and transformation to self and others. The impact of religious and spiritual belief systems on bereavement, grief, and loss will be covered. Family interventions and conceptualizing grief and loss from a systems perspective will be discussed. This course is an advanced graduate course that includes interpersonal, interactive, and affective content and experiences.

**CN 0432 Clinical Mental Health Counseling: Management, Delivery, and Evaluation****3 Credits**

Designed to familiarize candidates with the workings of community-based human service programs, this course focuses on organizational structure, agency goals and human resources, program development, needs assessment, grant writing, consultation roles, and program evaluation.

**CN 0433 Multicultural Issues in Counseling****3 Credits**

Candidates examine issues in counseling individuals and families from diverse ethnic, cultural, racial, and socioeconomic backgrounds and discuss the social, educational, economic, and behavioral factors that impact clinical work. The course addresses counseling men, women, and couples, and the issues of gender role stereotyping and changing sex roles, and integrates professional contributions from individual counseling and family therapy literature.

**CN 0446 Spirituality and Counseling****3 Credits**

An introductory course in the exploration of developmental models and clinical interventions related to the interface of spirituality and counseling. The focus of this course is on developing knowledge and practical skills in working with spiritual and religious issues in counseling. This course is an advanced graduate course that includes interpersonal, interactive, and affective content and experiences.

**CN 0447 Lifespan Human Development****3 Credits**

This course explores the processes of individual and family development from childhood through old age. Presenting theoretical perspectives for studying child, adolescent, adult, and family development, the course examines the modification of family structures over time and psychosocial development within family systems and cultural contexts. Crosslisted with FT 0447.

**CN 0454 Introduction to Counseling Children and Adolescents****3 Credits**

**Prerequisites:** CN 0447, CN 0500, CN 0553.

This course provides an overview of theories and research pertinent to counseling children and adolescents. Candidates examine factors that promote and hinder healthy human development and receive information regarding assessment, counseling process, and evaluation process unique to working with children and adolescents. The course addresses multicultural dynamics and identifies issues relevant to divorce, grieving, and coping with crisis. Procedures include activities designed to help candidates conceptualize an ecosystemic framework for the counseling process.

**CN 0455 Group Work: Theory and Practice****3 Credits**

**Prerequisite:** NS 0650.

This course focuses on the broad methodology of group work and theories and tasks in interpersonal and multicultural contexts. Candidates observe the nature of their interactions with others and enhance their knowledge about the nature of groups and the current theories and models. Understanding of group work with substance abusers will be explored. This course is an advanced graduate course that includes interpersonal, interactive, and affective content and experiences.

**CN 0457 Career Development: Theory and Practice****3 Credits**

**Fee:** \$60 GSEAP Lab Fee

This course explores theories of career development across the lifespan and applications used in practice. Career assessment tools, world of work information, and the career counseling process are included.

**CN 0465 Introduction to Substance Abuse and Addictions****3 Credits**

Candidates explore basic information about the history and current use and abuse of various drugs and alcohol. Topics include addiction, 12-step programs, physiological effects, FAS, COAs, and family systems, as well as culturally relevant prevention, intervention, and treatment strategies for individuals and families. This course is an advanced graduate course that includes interpersonal, interactive, and affective content and experiences. Crosslisted with FT 0465.

**CN 0466 Substance Abuse Interventions****3 Credits**

**Prerequisite:** CN 0465.

This course uses didactic and experiential techniques to understand and facilitate interventions with substance abusers and their families. Topics include the role of motivational counseling and techniques developed by the Johnson Institute. This course is an advanced graduate course that includes interpersonal, interactive, and affective content and experiences.

**CN 0467 Assessment in Counseling****3 Credits**

**Fee:** \$60 GSEAP Lab Fee

**Prerequisite:** CN 0553.

This course establishes an understanding of principles and procedures associated with standardized and non-standardized assessment in community and school settings. Candidates acquire skills necessary for conducting basic assessments and explore principles of diagnosis, individual, group, and environmental assessments. The course includes an overview of intelligence, attitude, interest, motivation, aptitude, achievement, personality, adjustment, and development; examines legal, ethical, and multicultural concerns; and presents considerations unique to individuals with special needs.

**CN 0468 Professional Issues in Counseling****3 Credits**

This course provides an orientation to the counseling profession, including the history of professional counseling; professional identity; the social, economic, and philosophical bases of the profession; the major legal and ethical issues facing the profession; and current and future issues and trends in counseling.

**CN 0500 Theories of Counseling and Psychotherapy****3 Credits**

This course examines philosophical bases for counseling theory, ethical and professional issues, and various theories that contribute to the practice of professional counseling, including psychoanalytic, humanistic/existential, cognitive/behavioral, and systemic approaches.

<b>CN 0515 Trauma and Crisis Intervention</b>	<b>3 Credits</b>	<b>CN 0531 School Counseling: Procedures, Organization, and Evaluation</b>	<b>3 Credits</b>
This course addresses current theory, research, and models relevant to trauma and crisis intervention. Specific focus will be placed on understanding the role of spirituality, across cultures, in counseling children, men, women, and families. In addition, skills essential for response to trauma while working with groups will be addressed. Conceptualization from a systems perspective will be addressed. Forgiveness, hardiness, resiliency, and the dynamics of violence, religious and political, will be discussed. Emphasis will be placed on understanding the role of spirituality while working with individuals and groups. An overview of the affective, behavioral, cognitive, and neurological sequelae in response to trauma and crisis will be discussed, with emphasis on skills essential for crisis intervention, including assessment of safety and security concerns, triage, lethality, mass disaster, death notification, suicide, murder, and natural disaster. In addition, models essential for the care of the caregiver will be identified. The course's instructional format will combine experiential, demonstration, and discussion methods. Active learning is essential to continued development. This course is an advanced graduate course that includes interpersonal, interactive, and affective content and experiences.			
<b>CN 0520 Spiritual Interventions: Tools for Competent Practice</b>	<b>3 Credits</b>	<b>CN 0533 Advanced Multicultural Counseling Strategies and Skills</b>	<b>3 Credits</b>
<b>Prerequisites:</b> CN 0446, CN 0553.		<b>Prerequisite:</b> CN 0433, CN 0553.	
Spiritual interventions tap into the affective domain and provide counselors and clients with the opportunity to explore their creativity, self-expression, and drive to be fully human. This course will allow counselors to learn the therapeutic benefits and process of using spiritual interventions in counseling that inform the process of healing and transformation. Interventions will include mindfulness meditation, creating mandalas, and guided imagery. Counselors will learn competencies for effective use of integrating spirituality into the counseling process, conceptualizing from a systems perspective and explore several spiritual interventions to enhance self-awareness and improve their ability to be present and attend to their clients. This course is an advanced graduate course that includes interpersonal, interactive, and affective content and experiences.			
<b>CN 0524 Domestic Violence in Nicaragua</b>	<b>3 Credits</b>	<b>CN 0553 Counseling Relationships and Skills</b>	<b>3 Credits</b>
<b>Prerequisite:</b> CN 0553.		<b>Prerequisites:</b> CN 0446, CN 0553.	
The course is designed to provide students with an opportunity to work outside of the country in Nicaragua. Specifically, students will work with groups of women from two rural villages on issues of gender equality and violence against women. The course is structured such that students will be required to meet throughout the summer, learning about Nicaraguan culture and laws, and designing a training program. Students will then travel to Nicaragua and provide training. This course is open only to students matriculated in the Counselor Education program.			
<b>CN 0525 Spirituality and Wellness</b>	<b>3 Credits</b>	<b>CN 0554 Group Facilitation</b>	<b>3 Credits</b>
This course provides a holistic approach to wellness integrating mind, body, and spirit interventions into the counseling process. An overview of wellness models, assessment tools, and spiritual practices as strength resources will be explored. Students will explore lifespan and cross cultural influences on wellness. Development of wellness and prevention plans and research on health and spirituality will be a focus. This course is an advanced graduate course that includes interpersonal, interactive, and affective content and experiences.			
<b>CN 0555 Substance Abuse Counseling: Skills and Strategies</b>	<b>3 Credits</b>	<b>CN 0555 Substance Abuse Counseling: Skills and Strategies</b>	<b>3 Credits</b>
<b>Prerequisite:</b> CN 465 or a basic understanding of the addictions field. This course focuses on learning, practice and developing counseling skills and strategies as it relates to substance abuse counseling. An overview of assessment, treatment planning, relapse prevention and recovery will be explored. The course addresses theories that are fundamental to addiction counseling with emphasis on the relationship between theory and the practice of effective skills. Candidates will reflect on their roles as counselors and define the qualities, knowledge and essential skills to becoming a competent, ethical, culturally aware counselor in training specific to the treatment of substance abuse. This course is an advanced graduate course that includes interpersonal, interactive, and affective content and experiences.			
<b>CN 0557 Co-occurring Disorders in Substance Abuse and Addictions Counseling</b>	<b>3 Credits</b>	<b>CN 0557 Co-occurring Disorders in Substance Abuse and Addictions Counseling</b>	<b>3 Credits</b>
<b>Prerequisite:</b> CN 0465. This course will introduce students to major concepts in the treatment of co-occurring substance use disorders and mental health disorders. Students will develop an awareness of the unique challenges that face clients who are struggling with multiple diagnoses. Students will practice conducting assessments, recovery plans, counseling skills and continuum of care issues relevant to the recovery process for this special population. Combines didactic and experiential learning opportunities. This course is an advanced graduate course that includes interpersonal, interactive, and affective content and experiences.			

**CN 0558 Counseling Practicum****3 Credits**

**Prerequisites:** Matriculation in Counselor Education, completion of core requirements, and practicum review. Candidates develop their individual, group, and consultation skills in this course through placement in a counseling setting, while receiving individual and group supervision on campus weekly. Participation requires audio recording at the practicum site for supervision and demonstration of diagnosis and treatment planning skills. Additional requirements include 100 clock hours, including 40 direct service hours. Candidates may repeat this course once for credit.

**CN 0565 Substance Abuse and the Family****3 Credits**

**Prerequisite:** CN 0465.

This course brings together substance abuse studies and family systems approaches. Students are presented with a knowledge base of skills and methods for assessing and treating family systems. The course identifies the addictive and intergenerational patterns within families. Students are encouraged to reflect upon the theoretical frameworks to understand and create interventions for alcoholic and substance-abusing family systems. Relational clinical models including developmental, systemic, solution-focused, and narrative approaches are reviewed and evaluated. The course examines the history and methods of treatment models. Issues of social justice are emphasized in a review of socio-cultural and social policy that influence family behaviors and treatment. This course is an advanced graduate course that includes interpersonal, interactive, and affective content and experiences. Crosslisted with FT 0566.

**CN 0566 Research Methodology****3 Credits**

This course covers statistical procedures and research design for the consumer of human services research, with an emphasis on program evaluation, understanding the inferential potential of statistical procedures, and evaluating published research. Candidates focus on research in their respective disciplines (school counseling, family therapy, etc).

**CN 0585 Introduction to Clinical Supervision****3 Credits**

**Prerequisite:** CN 0558 or permission of instructor.

Intended for post-master's degree practitioners in counseling, marriage and family therapy, psychology, or social work, who are engaged in the practice of clinical supervision or preparing to become supervisors, this course covers major conceptual approaches to supervision, supervision methods, evaluation of supervisees, ethical and legal issues, and additional variables that affect supervision. The course offers experiential components to supplement didactic material.

**CN 0590C Internship: Clinical Mental Health Counseling****3 or 6 Credits**

**Prerequisite:** CN 0558.

In clinical mental health counseling setting placements consistent with their career goals, candidate interns receive individual supervision. University faculty conduct weekly group supervision on campus that includes an emphasis on clinical work, prevention, and consultation, as well as professional issues related to practice. Internship requirements include 600 clock hours, including 240 direct service hours. Candidates arrange their internships with the assistance of the clinical coordinator.

**CN 0590S Internship: School Counseling****3 or 6 Credits**

**Prerequisite:** CN 0558.

In elementary, middle, and/or secondary school setting placements, candidate interns receive individual supervision. University faculty conduct weekly group supervision on campus that includes an emphasis on clinical work, prevention, and consultation, as well as professional issues related to practice. Internship requirements include 700 clock hours over 10 months, including 240 direct service hours. Candidates make their internship arrangements with the assistance of the clinical coordinator.

**CN 0591C Continuing Clinical Mental Health Internship****3 Credits**

**Prerequisite:** CN 0590C.

This course is a continuation of CN 0590C. Faculty conduct weekly group supervision on campus that includes an emphasis on clinical work, prevention, and consultation as well as professional issues related to practice. This continuation course ensures that interns complete the required 600 clock hours including 240 direct service hours.

**CN 0595 Independent Study****3-6 Credits**

Candidates undertake individual projects in consultation with a faculty member, based on proposals submitted one semester in advance.

## Economics (EC)

**EC 0011 Introduction to Microeconomics****3 Credits**

This course analyzes the behavior of individual consumers and producers as they deal with the economic problem of allocating scarce resources. The course examines how markets function to establish prices and quantities through supply and demand, how resource costs influence firm supply, and how variations in competition levels affect economic efficiency. Topics may include antitrust policy, the distribution of income, the role of government, and environmental problems. The course includes computer applications.

**EC 0012 Introduction to Macroeconomics****3 Credits**

This course develops models of the aggregate economy to determine the level of output, income, prices, and unemployment in an economy. In recognition of the growing importance of global economic activity, these models incorporate the international sector. The course examines and evaluates the role of public economic policy, including fiscal and monetary policy. Topics may include growth theory and price stability. The course includes computer applications.

**EC 0112 Economic Aspects of Current Social Problems****3 Credits**

**Attributes:** LCEL LACS Minor: Elective

This course uses a policy-oriented approach to study contemporary economic issues. Topics include government spending, the role of federal budgets in solving national problems, poverty, welfare, social security, population, the limits to growth controversy, pollution, energy, and regulation.

**EC 0114 The Economics of Race, Class, and Gender in the American Workplace****3 Credits**

**Attributes:** EDCG Educational Studies Cognate, EDDV Educational Studies Diversity, UDIV U.S. Diversity, WSGF Women, Gender, and Sexuality Studies: Gender Focused

This course examines the impact of race, class, and gender differences on decisions made in households and in the workplace. It begins with an in-depth analysis of labor supply decisions and responsibilities of households, moving to an examination of labor demand decisions and wage-rate determination. The course reviews applications of theoretical predictions as they relate to important public policy issues such as child and elder care, social security, pay equity, the glass ceiling, affirmative action, sexual harassment, and poverty.

<b>EC 0120 Environmental Economics</b>	<b>3 Credits</b>	<b>EC 0204 Intermediate Microeconomic Theory</b>	<b>3 Credits</b>
<b>Attributes:</b> EVME Environmental Studies Major Elective, EVPE Environmental Studies Elective, EVSS Environmental Studies: Social Science, LCEL LACS Minor Elective, WDIV World Diversity		<b>Prerequisite:</b> EC 0011.	
This course, which presents an overview of the theory and empirical practice of economic analysis as it applies to environmental issues, first establishes a relationship between the environment and economics. It then develops the concept of externalities (or market failures) and the importance of property rights before exploring the valuation of non-market goods. It examines the practice of benefit-cost analysis and offers economic solutions to market failures, while highlighting pollution control practices, especially those based on incentives. Throughout, the course examines current issues regarding environmental protection around the globe.		This course builds upon and expands the theoretical models of EC 0011. The course introduces indifference curves to explain consumer behavior; short- and long-run production functions, showing their relationship to product costs; and the efficiency of various competitive market structures. Topics include marginal productivity theory of income distribution, monopoly, and general equilibrium theory.	
<b>EC 0140 Health Economics</b>	<b>3 Credits</b>	<b>EC 0204L Intermediate Microeconomic Theory Lab</b>	<b>1 Credit</b>
<b>Attributes:</b> HSSS Health Studies: Social Science		<b>Corequisite:</b> EC 0204.	
This course begins by applying microeconomic theory to the health sector of the U.S. economy. The U.S. experience will be generalized to global health issues and alternative health care systems. Topics include the demand for health care and health insurance, managed care and the role of government, physician compensation, and specialty choice, the role of nurses and other healthcare professionals, the hospital sector, and medical cost inflation.		In this lab, students actively engage in the science of economics. Activities include lectures on mathematical methods, advanced problem-solving projects, collaborative teamwork experiences, and computer simulations. Note: This lab is required of all students pursuing the BS in economics; it is optional for students earning the BA.	
<b>EC 0150 Media Economics</b>	<b>3 Credits</b>	<b>EC 0205 Intermediate Macroeconomic Theory</b>	<b>3 Credits</b>
This course analyzes the operation and consumption of the music, television, and entertainment industries within a microeconomic framework. Students will learn what forms of competition drive the production and distribution of media in the context of a changing technical environment. Theories of different media market settings will be illustrated and then concepts reinforced by real-world examples, including the changing operation of music production and distribution as the internet evolves, and the ways in which current media companies integrate seemingly different products. To explain these processes the topics of competition, pricing, industry structures, and regulatory environments will be explored.		<b>Prerequisite:</b> EC 0012.	
<b>EC 0152 Economics of Sport</b>	<b>3 Credits</b>	This course, which includes computer applications, analyzes the determination of national income and output; fiscal and monetary tools; and growth, inflation, and stabilization policies.	
This course develops and examines the tools and concepts of economic analysis as they apply to the sports industry. Topics in professional sports include free agency, salary cap, and new franchises. The course also explores economic issues and institutional structures of sports such as golf and tennis, and the broader industry including the National Collegiate Athletic Association, sports equipment, advertising, minor leagues, and the Olympics. Students gain an increased understanding of how economics affect them through this combination of sports and economics.		<b>EC 0205L Intermediate Macroeconomic Theory Lab</b>	<b>1 Credit</b>
<b>EC 0185 Regional Economic Development</b>	<b>3 Credits</b>	<b>Corequisite:</b> EC 0205.	
This course includes two key components: a theoretical examination of the basic theories of regional economic development such as growth poles, spillovers, infrastructure requirements, and center-periphery analysis; and an application of these theories to a specific economic issue. Students participate in a comprehensive study of a significant economic issue facing a Connecticut community, in cooperation with a regional agency, resulting in detailed analysis of the issues and potential solutions. Fieldwork is required.		In this lab, students actively engage in the science of economics. Activities include lectures on mathematical methods, advanced problem-solving projects, collaborative teamwork experiences, and computer simulations. Note: This lab is required of all students pursuing the BS in economics; it is optional for students earning the BA.	
		<b>EC 0210 Money and Banking</b>	<b>3 Credits</b>
		<b>Attributes:</b> BUEL Business Elective	
		<b>Prerequisite:</b> EC 0012.	
		This course covers the commercial banking industry, the money market, Federal Reserve operations and policy making, and monetary theory.	
		<b>EC 0224 Labor Economics and Labor Relations</b>	<b>3 Credits</b>
		<b>Prerequisites:</b> EC 0011, EC 0012.	
		Nearly 70 percent of income earned in the United States is a return to labor. This course applies the fundamentals of microeconomic and macroeconomic analysis to important decisions that people make in labor markets. From an employee's perspective, questions include: Should I work in exchange for a wage? If so, how much? How will my work affect my lifestyle and family decisions? Should I go to school to improve my skills? From an employer's perspective, questions include: Should I hire workers? If so, how many? How should I pick workers out of a pool of applicants? What techniques should I use to provide incentives for these workers? Many of the answers to these questions require complex analysis and an understanding of the impact of government policy on the workplace. The course explores a variety of public policy issues such as minimum wage programs, government welfare programs, workplace regulatory requirements, Title IX, immigration, and the union movement.	

<b>EC 0225 Environmental Economics</b>	<b>3 Credits</b>	<b>EC 0270 Engineering Economics</b>	<b>3 Credits</b>
<b>Attributes:</b> EVME Environmental Studies Major Elective, EVPE Environmental Studies Elective, EVSS Environmental Studies: Social Science, PJST Peace and Justice Studies		<b>Prerequisite:</b> EC 0011.	
<b>Prerequisites:</b> EC 0011, EC 0120.		Engineering projects must be analyzed based upon their technical soundness, but also upon their ability to attract investment dollars in a market economy. This course prepares engineering students to apply microeconomic, finance, and statistical methods as they analyze the economic feasibility of projects. Students will learn about capital budgeting, risk and uncertainty, demand analysis, production and cost modeling, and linear programming. They will apply Excel and other computer-based simulations to analyze data. The goal of the course is ultimately to provide the student with the economic decision-making skills he or she needs to plan, design, and finance engineering projects.	
<b>EC 0230 Comparative Economic Systems</b>	<b>3 Credits</b>	<b>EC 0275 Managerial Economics</b>	<b>3 Credits</b>
<b>Attributes:</b> LCEL LACS Minor: Elective, WDIV World Diversity		<b>Prerequisite:</b> EC 0011.	
<b>Prerequisites:</b> EC 0011 or EC 0012.		This course prepares economics and business students to apply microeconomic, finance, and statistical methods as they analyze the economic feasibility of projects. Students will learn about capital budgeting, risk and uncertainty, demand analysis, regression analysis, production and cost modeling, and linear programming. They will apply Excel and other computer-based simulations to analyze data. The goal of the course is ultimately to provide students with the economic decision-making skills they need to plan, design, and finance projects, and to understand how various divisions of a firm must work together to achieve goals.	
<b>Is communism dead? Is capitalism the only real economic system left?</b>		<b>EC 0276 Public Finance</b>	<b>3 Credits</b>
This course explores the various economic systems that are used to distribute resources, i.e., to decide "who gets what" in a nation's economy. The course considers the differences between alternative distribution mechanisms, what it means to transition from one system to another, and how these economic decisions are affected by political and national realities. Because there are so many international alternatives to be explored, each semester focuses on an economic region of the globe: Asia, Eastern Europe and Central Asia, Africa, or Latin America. This course, where appropriate, is available for credit in international studies or area studies programs.		<b>Prerequisites:</b> EC 0011, EC 0012.	
<b>EC 0231 International Trade</b>	<b>3 Credits</b>	This course examines government expenditure and tax policies with an emphasis on evaluation of expenditures; the structure of federal, state, and local taxes; and the budget as an economic document.	
<b>Prerequisite:</b> EC 0011.		<b>EC 0278 Economic Statistics</b>	<b>3 Credits</b>
This course covers international trade theory, U.S. commercial policy (tariffs, quotas), common markets, trade with and among developing nations, balance of payments disequilibria, and multinational enterprises.		<b>Attributes:</b> EVAP Environmental Studies: Applied Professional Skills	
<b>EC 0233 International Economic Policy and Finance</b>	<b>3 Credits</b>	<b>Prerequisites:</b> EC 0011, EC 0012.	
<b>Prerequisite:</b> EC 0012.		This course introduces students to descriptive statistics, probability theory, discrete and continuous probability distributions, sampling methods, sampling distributions, interval estimation, and hypothesis testing. A weekly lab provides opportunities for active exploration and application of course concepts.	
<b>EC 0235 Economic Development of Third World Nations</b>	<b>3 Credits</b>	<b>EC 0278L Economic Statistics Lab</b>	<b>1 Credit</b>
<b>Attributes:</b> LCEL LACS Minor: Elective, WDIV World Diversity		<b>Corequisite:</b> EC 0278.	
<b>Prerequisites:</b> EC 0011, EC 0012.		In this lab, students actively engage in the science of statistics. Activities include lectures on mathematical methods, advanced problem-solving projects, collaborative teamwork experiences, and computer applications appropriate to statistical analysis. Note: This lab is required of all students pursuing the BS in economics; it is not required for students earning the BA.	
This course considers the nature and causes of problems facing low-income nations, with a focus on the impact that various economic policies have on promoting economic development.		<b>EC 0290 Mathematical Economics</b>	<b>3 Credits</b>
<b>EC 0250 Industrial Organization and Competitive Strategy</b>	<b>3 Credits</b>	<b>Prerequisites:</b> EC 0011, EC 0012, MA 0016.	
<b>Prerequisite:</b> EC 0011.		This course applies mathematical models and concepts to economic problems and issues. Mathematical techniques include calculus and matrix algebra. Economic applications include the areas of consumer theory, theory of the firm, industrial organization, and macroeconomic modeling.	
Using microeconomic theory, this course examines the economic behavior of firms and industries, identifying factors affecting the competitive structure of markets and using these structural characteristics to evaluate the efficiency of resource use. Topics include mergers, measures of concentration, pricing, entry barriers, technological change, and product development.		<b>EC 0298 Independent Study</b>	<b>1-3 Credits</b>
<b>EC 0252 Urban Economics</b>	<b>3 Credits</b>	For economic majors only, this course is open to seniors by invitation or mutual agreement with the instructor.	
<b>Prerequisites:</b> EC 0011, EC 0012.			
This course analyzes the development of modern urban areas by applying the tools of economic analysis to their problems. Topics include transportation, housing, and the provision and financing of public services.			

<b>EC 0299 Internship</b>	<b>3 or 4 Credits</b>	<b>ED 0329 Philosophy of Education: An Introduction</b>	<b>3 Credits</b>
Students, placed in a professional environment by the department, use economic and analytical skills acquired from their courses in a non-academic job setting. Students submit a written assignment detailing their internship experience to a faculty sponsor by the end of the term. Enrollment by permission only.		This course applies the basic concepts of philosophy to education in general and to contemporary education theory in particular to acquaint educators with philosophical terminology, to improve the clarity of their thinking, and to encourage personal commitment to their own life philosophies. It also provides the opportunity to ask fundamental questions about the aims and purposes of education and schooling in a multicultural democratic society; the ethical dimensions of the teaching/learning relationship; the effects of poverty and injustice on the lives of young people, their families and communities; and the role of the imagination in transforming the world. A range of philosophical perspectives will be explored including Jesuit Education/Ignatian Pedagogy, Deweyan Progressive education, and Freirian Critical Pedagogy. This course includes an optional service learning experience in an approved, ethnically diverse school setting.	
<b>EC 0320 Financial Markets and Institutions</b>	<b>3 Credits</b>	<b>ED 0350 Special Learners in the Mainstream</b>	<b>3 Credits</b>
<b>Prerequisite:</b> EC 0210.		This course familiarizes the mainstream professional with the special learning needs of children and youth with intellectual and developmental disabilities, learning disabilities, emotional disturbances, severe disabilities, multiple disabilities, and those who are gifted and talented. Topics include methods of identifying and working effectively with children and youth with special learning needs in the regular classroom; the roles and responsibilities of counselors, psychologists, educators, and ancillary personnel as members of a multidisciplinary team in planning educational services for exceptional learners; and laws that impact on assessment, placement, parent and student rights, and support services. This course may require a fieldwork component as part of the evaluation process. Note: This course is not for those pursuing an initial certificate or cross-endorsement in special education; it is for general educators and students in affiliated fields of study.	
<b>EC 0380 Econometrics</b>	<b>3 Credits</b>	<b>ED 0401 K-12 Teaching Internship Seminar for Initial Certification</b>	<b>1 Credit</b>
<b>Prerequisites:</b> EC 0011, EC 0012; EC 0278 or MA 0217.		<b>Candidates</b>	<b>1 Credit</b>
This course introduces students to the process used to formulate theories of economic behavior in mathematical terms and to test these theories using statistical methods. The course discusses the technique and limitations of econometric analyses as well as methods available for overcoming data problems in measuring quantitative economic relationships.		<b>Prerequisite:</b> Matriculated status in an initial educator certification MA or SYC program in the Graduate School of Education and Allied Professions. This seminar is designed for pre-service teachers working as teaching interns while pursuing a graduate degree. Candidates engage in the reflective practice and action of Ignatian pedagogy, connect theory and practice, and develop an identity as educators for social justice and social responsibility. Seminar activities increase in sophistication as the teaching internships progress. Candidates must enroll in the seminar every semester of their teaching internships. May not be used to fulfill degree requirements.	
<b>EC 0397 Microeconomics Seminar</b>	<b>3 Credits</b>	<b>ED 0402 Teaching Internship Seminar for Certified Teachers</b>	<b>1 Credit</b>
This seminar seeks to familiarize participants with recent developments in the discipline and sharpen research skills. Students complete a research project concerning a topic of their choice. The course includes computer applications. Enrollment by permission only.		<b>Prerequisites:</b> Connecticut teacher certification or eligibility and matriculated status in an advanced educator MA or SYC program in the Graduate School of Education and Allied Professions. In these sequenced seminars, designed for certified teachers working as teaching interns while pursuing a graduate degree, candidates engage in the reflective practice and action of Ignatian pedagogy, connect theory and practice, and build their professional portfolios as educators for social justice and social responsibility. Seminar faculty will spend time with the teaching interns in their schools. Candidates must enroll in the seminar every semester of their teaching internships; the seminar activities increase in sophistication as the teaching internships progress. May not be used to fulfill degree requirements.	
<b>EC 0398 Macroeconomics Seminar</b>	<b>3 Credits</b>		
This seminar seeks to familiarize participants with recent developments in the discipline and sharpen research skills. Students complete a research project concerning a topic of their choice. The course includes computer applications. Enrollment by permission only.			

## Education (ED)

<b>ED 0200 Explorations in Education: Introduction to Teaching, Learning, and Schooling</b>	<b>3 Credits</b>
<b>Attributes:</b> UDIV U.S. Diversity	
In this course, students/candidates discover how education is accomplished in schools through the social construction of teaching and learning. Through participant observation, service learning, reflections, assigned readings, class discussions and collaboration, candidates contribute positively to student learning in local schools and communities with diverse (socioeconomic, linguistic, race/ethnicity) populations, understand the complexities of schooling from multiple insider perspectives, and engage in the process of discerning whether to pursue a career in education. Successful completion of this course is one of the prerequisites for admission to the teacher education program. Approximately 25 hours of service in a local school is required.	
<b>ED 0241 Educational Psychology</b>	<b>3 Credits</b>
This course considers a particular application of the more important psychological principles to educational theory and practice, embracing a systematic study of the educable being, habit formation, phases of learning, intellectual and emotional growth, and character formation. The course, which includes a 15-hour field experience in an approved, ethnically diverse public school setting, also examines individual differences, transfer of training, interest, attention, and motivation insofar as they influence the teaching process.	

**ED 0403 Special Topics (Shell)****1-3 Credits**

This course provides faculty and candidates the opportunity to explore advanced and/or timely topics in education. Guided by the foundational premises of the GSEAP conceptual framework, candidates develop knowledge and culturally sensitive professional capacity with regard to the specified topic through readings, class discussion, and authentic activity, including advocacy. Topics may vary each semester and are determined by the Educational Studies and Teacher Preparation Department as a reflection of pertinent and timely themes that are not otherwise covered in depth in existing courses. Upon faculty advisement, candidates may take two special topics courses during their matriculation.

**ED 0405 Contexts of Education in the Primary Grades****3 Credits**

Based on current theory and practice in multicultural education, learning theory, child development, and class-room management, this course provides the opportunity to learn about and design learning environments in which primary grade children thrive, build supportive learning communities, and develop social conscience.

**ED 0429 Philosophical Foundations of Education****3 Credits**

Drawing on a range of philosophical perspectives, this foundational course provides candidates with the opportunity to analyze critically some of the recurring themes in educational thought and connect them to the contemporary educational context. Fundamental questions examined include: the meaning of one's chosen vocation; the purposes of education and schooling in a democratic society; the ethical dimensions of the teaching/learning relationship; and the role of the social imagination in transforming the world.

**ED 0431 Extending Literacy in the Elementary School: Grades****3-6****3 Credits****Prerequisite:** ED 0437.

This course explores the continuation of literacy development and learning, with emphasis on content-area literacy development in the later elementary grades. Guided by current research and practice in literacy, pedagogy, human development, and multicultural education, candidates learn to assess and develop children's literacy strategies and skills, organize and facilitate group and individual learning in reading and writing, and design and carry out content-based curriculum to support continued literacy development and social responsibility. The course addressed the integration of visual and performing arts and appropriate use of electronic technology, includes collaborative work with cooperating teachers, and requires at least two hours per week of fieldwork in priority school districts.

**ED 0437 Developing Literacy in the Elementary School: Primary****Grades****3 Credits**

This course explores developmental literacy, with an emphasis on primary grades. Guided by current research and practice in literacy, pedagogy, human development, and multicultural education, candidates assess and develop children's literacy strategies and skills; organize and implement group and individual instruction in reading and writing; develop a technologically current, literate classroom environment; and design curriculum to support literacy development and social responsibility. Course requirements include: collaborative work with peers and cooperating teachers, an extensive case study, and at least two hours per week of fieldwork in a priority school district.

**ED 0441 Teaching and Learning within Multicultural Contexts of Education****3 Credits**

This course explores and addresses the multifaceted aspects of multicultural education with the aim of engaging in a teaching-learning process where participants explore their commitment to the well-being and learning of all students; develop a deep understanding of the needs of all students; develop strategies to promote caring, justice, and equity in teaching; learn to respect linguistic, racial, ethnic, gender, and cultural diversity; investigate how students construct knowledge; demonstrate an understanding of the relationship between students' daily life experiences and education; and critique systematic processes of discrimination that marginalize and silence various groups of students. Crosslisted with SL 0441.

**ED 0442 Educational Psychology****3 Credits**

Designed to provide an understanding of the psychology of teaching and learning, this course emphasizes child and adolescent development, motivation techniques, teaching and learning theories, strategies for working with culturally diverse student populations, student performance monitoring and assessment, and current issues in educational psychology. Especially appropriate for those new to the profession, this course helps participants develop insights into student behavior. Course requirements include field experience in a culturally diverse school setting approved by the instructor for a minimum of 20 hours. Marriage and Family Therapy candidates require Dean's approval.

**ED 0447 Learning Mathematics in the Elementary Classroom****3 Credits**

In accordance with the professional standards for teaching mathematics, this course emphasizes the important decisions a teacher makes in teaching: setting goals, selecting or creating a variety of appropriate mathematical tasks, supporting classroom discourse; integrating mathematics across the curriculum; assessing student learning; and creating a supportive classroom environment. During this course, candidates explore the relevance of theory in the classroom. In addition, candidates investigate the development of specific concepts such as computation and geometry in elementary age children. Candidates engage in adult-level mathematics activities designed to increase an understanding of mathematics, examine the latest research on how children learn mathematics, and explore strategies for dealing with diverse learners. Additionally, as socially responsible educators, candidates examine how mathematical practices and teaching methods are influenced by underlying theoretical principles linked to history and the position of the classroom teacher. Course requirements include on-site fieldwork in an elementary school for a minimum of two hours per week during the semester.

**ED 0455 The Literate Learner: Using Critical and Strategic Literacy in the Content Areas, Grades 5-12****3 Credits**

In this course, designed for experienced and new middle and high school educators, candidates explore and use cutting edge theory and best practices in literacies to support powerful student learning across curricular areas. Candidates learn a repertoire of research-based strategies and tools to help diverse learners to make meaning from a variety of texts in their subject area, including non-print and media texts. As reflective educators who advocate for equity and justice in education, candidates will infuse critical and strategic literacies into content area curriculum and document their effect on student learning. Candidates not currently teaching will be expected to work with a teacher in a high needs school for about 25 hours in order to complete this aspect of the course.

<b>ED 0459 Developmental Reading in the Secondary School</b>	<b>3 Credits</b>
This course emphasizes enhancing reading comprehension in all curricular areas at the secondary level. Current reading theory and research provide the framework for examining a variety of instructional strategies. Additional areas explored include questioning techniques, concept development, study strategies, and assessment.	
<b>ED 0462 Science Methods</b>	<b>3 Credits</b>
This course includes a comprehensive study of the principles, methods, and materials necessary for teaching science at the secondary level. Candidates explore effective elements of instruction as they relate to practical applications in the classroom. The course addresses teaching science through course readings, lesson and unit plan design, and videotaped mini-teaching sessions. This course includes a required field service component consisting of 20 hours of teaching with a practicing science teacher. Enrollment by permission only. Requires submission of a resume, a one-page philosophy of education writing sample, a data form, and permission of the coordinator of Science Education.	
<b>ED 0463 World Language Methods</b>	<b>3 Credits</b>
This course includes a comprehensive study of the principles, methods, and materials necessary for teaching world language at the secondary level. Candidates explore effective elements of instruction as they relate to practical applications in the classroom. The course addresses teaching world language through course readings, lesson and unit plan design, and mini-teaching sessions. This course includes a required field service component consisting of 10 hours of teaching with a practicing language teacher. Enrollment by permission only. Requires submission of a resume, a one-page philosophy of education writing sample, a data form, and permission of the coordinator of World Language Education.	
<b>ED 0464 Mathematics Methods</b>	<b>3 Credits</b>
This course includes a comprehensive study of the principles, methods, and materials necessary for teaching mathematics at the secondary level. Candidates explore effective elements of instruction as they relate to practical applications in the classroom. The course addresses teaching mathematics through course readings, lesson and unit plan design, and videotaped mini-teaching sessions. This course includes a required field service component consisting of 10 hours of teaching with a practicing mathematics teacher. Enrollment by permission only. Requires submission of a resume, a one-page philosophy of education writing sample, a data form, and permission of the coordinator of Mathematics Education.	
<b>ED 0466 English Methods</b>	<b>3 Credits</b>
Candidates explore the organizational pattern in which English can best be taught and analyze the effectiveness of various methodology in bringing about changes in the language usage of young people. The course considers such factors as appropriate curriculum materials, methods of organization, approaches to literature study, and procedures most cogent in the fields of grammar, composition, oral communication, and dialogue. The course addresses teaching English through course readings, lesson and unit plan design, and videotaped mini-teaching sessions. This course requires a field service component consisting of 10 hours of teaching with a practicing English teacher. Enrollment by permission only. Requires submission of a resume, a one-page philosophy of education writing sample, a data form, and permission of the coordinator of English Education.	

<b>ED 0468 Social Studies/History Methods</b>	<b>3 Credits</b>
This course combines theory, research and practice through a comprehensive application of the principles, methods, and materials necessary for teaching social studies/history at the secondary level. Candidates explore effective elements of instruction as they relate to practical applications in the classroom. The course addresses teaching social studies/history through course readings and resources, lesson and unit plan design, and videotaped mini-teaching sessions. This course includes a required field service component consisting of 10 hours of teaching with a practicing social studies/history teacher. Enrollment by permission only. Requires submission of a resume, a one-page philosophy of education writing sample, a data form, and permission of the coordinator of Social Studies/History Education.	
<b>ED 0493 Educational Imagination: Exploring Multicultural Identities &amp; Curriculum in a Cross-Cultural Context</b>	<b>3 Credits</b>
This course explores alternative approaches to education. Drawing on the works of liberatory educators, such as Paulo Freire and Maxine Greene, as well as the arts and popular culture, this course provides the basis for dialogue on the transformative power of our imagination. This course views the teacher's role as one of empowering students to think critically about themselves and their relation to education and a multicultural society, and the student's role as one of active participation in the learning process. Connecting theory, practice and personal experience in useful and imaginative ways, we will, in the words of Maxine Greene, begin to see: schooling as it could be otherwise; teaching as it could be otherwise; learning as it could be otherwise; culture as it could be otherwise; the world as it could be otherwise.	
<b>ED 0497 Teaching Science in the Elementary Classroom</b>	<b>3 Credits</b>
This course includes a comprehensive study of the principles, methods, and materials necessary for teaching science at the elementary level. Candidates explore effective elements of instruction as they relate to practical applications in the classroom. The course addresses teaching science through readings, active participation in class activities, lesson/unit plan design and microteaching, class discussions, and individual reflections. Guided by current research and practice in science education, candidates in this course design science curricula for the elementary grades that develop content knowledge, science inquiry skills, critical thinking, problem solving, social responsibility, and technological competence. This course includes a required 10-hour field component.	
<b>ED 0499 Introduction to Educational Research</b>	<b>3 Credits</b>
<p><b>Prerequisite:</b> At least six credits toward the MA degree.</p> <p>In this course, candidates develop critical perspectives on research about education. Guided by current theory and practice in educational research, candidates reflect on ethical considerations of the researcher as well as the methodological tools that are used in educational research. Candidates are introduced to a wide range of qualitative and quantitative methods, which they use in analyzing data and reviewing current educational research articles. Through discussions, candidates consider how research can be a valuable tool that helps teachers systematically reflect on learning and teaching practices. During the course, candidates connect an area of interest with research methods as they develop research paper proposals.</p>	

**ED 0501 Practicum for Literacy Teacher Consultants****2 or 3 Credits****Prerequisite:** ED 0561.

The Practicum for Literacy Teacher Consultants will focus on the following: research on literacy issues; exploration of best practices in the teaching of literacy to all students; theory and practice of providing leadership for teachers who use reading, writing, and thinking in the courses they teach. Students who successfully complete the Practicum will become teacher/consultants for the Connecticut Writing Project: Fairfield.

**ED 0510 Cultural and Political Geography****3 Credits**

Cultural and political geography can be at once overlaid and in conflict. Geographer Bernard Nietschmann's analysis of indigenous "nation peoples" conflicts with past and current political states describes many of today's extant political conflicts. Within virtually every political state, "multi-national" (i.e. multicultural) groups struggle for identity, independence, autonomy, territory, and rights. This course provides a framework for understanding the dual centrifugal and centripetal forces acting on political states, the fragility of the notion of "nation-states," sovereignty, boundary, alliances, cartels, and organizations of states as functions of human cultural and political geography. Appropriate technologies and activities for 7-12 students are demonstrated.

**ED 0511 Educating for Social Responsibility and Civic Engagement: A Capstone Seminar****3 Credits****Prerequisite:** All other degree requirements.

Drawing on contemporary educational theory and best practices, and inspired by the Jesuit educational goal of "forming men and women for others," this capstone seminar is the culminating, integrative experience for approved candidates in the Master's in Teaching and Foundations program for certified teachers and for the Master's in Elementary Education, and the Master's in Secondary Education. As participants in a community of learners, candidates demonstrate their capacities as reflective scholar-practitioners who synthesize program learnings to produce an Integrative Master's Project. This capstone seminar explores the ways educational professionals can promote social responsibility in their work with schools, communities, and families.

**ED 0512 Contemporary Schooling in Society****3 Credits**

Candidates investigate and discuss current issues important to education, seeking to understand the relationship between the systemic nature of particular issues and their specific manifestations in local, national, and global arenas. In addition, candidates identify the ways that they, as educators and as citizens, attend to these issues at the local level.

**ED 0515 Economic and Physical Geography****3 Credits**

Economic geography is closely connected to physical geography - the central issue being uneven distribution of resources on a global scale. These resources, be they natural, human or capital resources, constitute the economic interactions of not only nations, but of the past, present, and future of human activities and planetary resource and environmental issues. Therefore, issues of development, poverty and wealth, environmental concerns that will affect the lives of today's students, their children, and their environment are addressed. Appropriate technologies and activities for 7-12 students are demonstrated.

**ED 0522 Learning and the Child's Experience****3 Credits****Prerequisite:** ED 0405 or ED 0437 or ED 0447 or ED 0497.

Drawing from classic and current cross-disciplinary theory and practice, candidates in this course gain a comprehensive, culturally sensitive knowledge of how children and young adolescents in the elementary grades learn, think, and interact as social beings. Candidates consider the development of individual children within the larger context of educational institutions. Beginning with an introduction of Piaget's and Vygotsky's frameworks for the understanding of development, candidates further explore constructivism and socio-historical cultural views of learning as they consider the relevance of theory for teaching practices.

**ED 0530 Assessment and Differentiated Instruction****3 Credits**

Teacher candidates in this course will become familiar with principles and techniques necessary to plan, select, administer, interpret, and assess a differentiated range of student learning activities and instructional methods. Candidates will learn to use traditional norm-referenced instruments, curriculum-based assessments, formal observations, interviews, criterion-referenced assessments, and other alternative assessments to guide differentiated planning and instruction.

**ED 0534 Theories of Learning****3 Credits**

This course presents a detailed consideration of the positions on the nature and conditions of human learning found in the principal schools of psychology and in contemporary research. Crosslisted as PY 0534.

**ED 0540 Ethics and Advocacy in Educational Contexts****3 Credits**

This course examines key ethical theories and their application in authentic educational settings. Case studies of real and potential ethical dilemmas are analyzed from a social justice advocacy perspective, highlighting the individual, professional and social dimensions of ethical reasoning, decision-making and action.

**ED 0545 Developing Integrated Curriculum for Elementary Students: Inquiry and Action****3 Credits**

Guided by current research and practice in pedagogy, human development, and multicultural education, candidates in this course design socially responsible, inquiry and action-oriented, interdisciplinary curriculum units that develop content knowledge, inquiry tools, technological competence, social responsibility, and critical thinking. Fieldwork in local 3-6 classrooms required. Prerequisites: At least two of the following: ED 0437, ED 0447, ED 0497, ED 0531.

**ED 0547 Leadership in Supporting Mathematics Learning in School and Community Settings****3 Credits**

In accordance with the professional standards for teaching mathematics, this course provides certified elementary educators and candidates for cross-endorsement in elementary education opportunities to plan, design and carry out theoretically informed, developmentally appropriate and culturally responsive mathematics education for elementary students with varied learning needs. Candidates have the opportunity to take a leadership role in team planning, the design of responsible test preparation, and in school and community-based opportunities for students to explore mathematical concepts, skills, and strategies. Requirements include extensive teaching and team planning for mathematics learning in an elementary school and/or community setting.

<b>ED 0552 Participatory Research and Advocacy in School and Community Settings</b> <span style="float: right;"><b>3 Credits</b></span>	<b>ED 0573 Instructional Issues in Teaching Science</b> <span style="float: right;"><b>3 Credits</b></span>
<b>Prerequisite:</b> Matriculation and six completed credits in the MA program in Teaching and Foundations.	Teacher candidates seeking secondary science certification must enroll in an advanced science methods course focusing on contemporary issues in science education. This course will provide candidates with the opportunity to learn the conceptual foundations of current approaches to science instruction and professional development especially as related to student learning at the secondary level. Contemporary issues central to the course include but are not limited to: science education standards, science education reform efforts, equity in science education, teaching through inquiry and assessment strategies in science education. The course will offer students opportunities for active learning and reflection and the construction of new understanding regarding science teaching and learning. This course will also require students to take part in a research component focusing on a particular science education issue of their choice. They will begin a literature review and propose a research project which they may complete if they chose the Master's thesis option.
<b>ED 0559 Empowering Struggling Readers and Writers in the Elementary Grades</b> <span style="float: right;"><b>3 Credits</b></span>	<b>ED 0575 Theory and Practice of Integrated Curriculum Design</b> <span style="float: right;"><b>3 Credits</b></span>
<b>Prerequisite:</b> ED 0437 or a current teaching certification.	In this course candidates explore theories of critical pedagogy design and teaching. They develop and implement differentiated, culturally sensitive inquiry and action-oriented interdisciplinary curriculum units. Candidates learn to develop students' content knowledge, inquiry tools, technological competence, social responsibility, and critical thinking. Current emphasis in this course is on integrating science, social studies and health curricula. This is an advanced course for those already certified or MA degree-only candidates.
<b>ED 0561 Summer Institute in the Teaching of Writing</b> <span style="float: right;"><b>0-4 Credits</b></span>	<b>ED 0579 Directed Observations for Secondary DSAP Candidates: Part I</b> <span style="float: right;"><b>3 Credits</b></span>
This institute is for experienced teachers, grades K-12, in all disciplines. Participants will become familiar with contemporary theory regarding all aspects of literacy with emphasis on composition theory. In addition, participants will explore best practices that extend theory into the classroom. A primary focus for inquiry will be on language of students for whom English is a second language and for low income students. In addition, participants will explore literary issues through their own writing and through independent research in an area of study that is appropriate to their professional needs. All participants who want advanced training as presenters and literacy leaders in Fairfield and New Haven school districts will be encouraged to apply for the practicum following the institute.	This is part one of a two-semester course designed for those candidates working in the public secondary schools under a DSAP. Each course offers a semester-long experience in a public secondary school for qualified candidates. Participants engage in teaching five days each week. Emphasized concepts include classroom management dynamics, teaching techniques, lesson plan organization, and faculty duties. Candidates receive assistance from their university supervisor who observes and evaluates each candidate a minimum of three times. The instructor collaborates with the candidate to keep a line of communication open with the mentor for the candidate and with those assigned to assess the candidate at the district level. District evaluations are submitted to the instructor. Candidates must obtain permission to take this course from their program coordinator at the beginning of the previous semester. Enrollment only by approval of the department and the Dean.
<b>ED 0565 Principles of Curriculum Development and Evaluation</b> <span style="float: right;"><b>3 Credits</b></span>	
Candidates examine the principles, problems, theories, and critical issues in curriculum organization. The course emphasizes gaining practical knowledge about curriculum development and improvement, with a focus on the identification and systematic study of concerns and new directions in curriculum development and improvement based on current research and thought.	
<b>ED 0572 Guided Research in Science</b> <span style="float: right;"><b>3 Credits</b></span>	
Working closely with both a science education and faculty member in Physics, Chemistry or Biology (depending on licensure field), science education candidates engage in a guided research project. Candidates learn and use the most recent skills and tools of research in their certification area and demonstrate their ability to understand research and successfully design, conduct, report, and evaluate investigations in science. As part of their course requirements, candidates synthesize their research in the form of a scientific paper and develop a unit of instruction that integrates findings from their research and engages 7-12 students in the processes of research in the field.	

**ED 0580 Directed Observations for Secondary DSAP Candidates: Part II** **3 Credits**

**Prerequisites:** ED 0579, completion of certification course requirements, and all subject area requirements.

This is part two of a two-semester course designed for those candidates working in the public secondary schools under a DSAP. Each course offers a semester-long experience in a public secondary school for qualified candidates. Participants engage in teaching five days each week. Emphasized concepts include classroom management dynamics, teaching techniques, lesson plan organization, and faculty duties. Candidates receive assistance from their university supervisor who observes and evaluates each candidate a minimum of three times. The instructor collaborates with the candidate to keep a line of communication open with the mentor for the candidate and with those assigned to assess the candidate at the district level. District evaluations are submitted to the instructor. Candidates must obtain permission to take this course from their program coordinator at the beginning of the previous semester. Open only to candidates who have been formally accepted into the Teacher Preparation program.

**ED 0581 Directed Observation and Supervised Student Teaching: Secondary Education** **6 Credits**

**Prerequisites:** Formal acceptance into Teacher Preparation program and completion of all certification course requirements.

This course offers a semester-long experience in a local school for qualified candidates in secondary teaching. Participants engage in observation and teaching five days each week. Emphasized concepts include classroom management dynamics, teaching techniques, lesson plan organization, and faculty duties. Candidates receive assistance from their university supervisors and the cooperating teacher(s), who must observe and evaluate each student. Candidates must register with the director of student teaching placement at the beginning of the previous semester.

**ED 0583 Elementary Student Teaching: Immersion in a Community of Practice** **6 Credits**

This course offers a stimulating semester-long experience in an elementary school classroom within a local priority school district. Under the guidance of university supervision and intensive mentoring by cooperating teachers, participants quickly assume full teaching responsibilities, including curriculum and lesson planning anchored in the principles of multicultural education and social responsibility, differentiated instruction, and effective organization and management, while carrying out other faculty duties, including participation in school governance and professional development. As educators for social justice and social responsibility, they engage in related school and community-based activities with students, families, and community members. Participants must register with the director of student teaching placement at the beginning of the previous semester. Enrollment requires performance-based assessment including, but not limited to, successful completion of all prerequisite certification track courses and requirements while a matriculated candidate in the Elementary Education MA program, permission of the elementary education program director, and an interview with the director of student teaching placements.

**ED 0584 Reflective Practice Seminar: Elementary Education** **3 Credits**

Participants take this weekly seminar concurrently with student teaching. Although much of the seminar's subject matter flows from the ongoing student-teaching experience, it deliberately addresses issues such as socially responsible teaching, professional disposition and habits of mind, teacher research, school governance, mandated Connecticut testing, classroom management, conflict resolution, communication with parents/caregivers, sensitivity to multicultural issues, and special education. The course stresses continued reflective practice and professional development, including development of a professional portfolio, continued study and research, and establishing a supportive collegial network.

**ED 0585 Supervised Teaching, Learning, and Reflection in a Community of Practice: Part I** **3 Credits**

This course is the first of a two-semester supervised experience designed for candidates for whom traditional student teaching is not appropriate because they are currently teaching in an elementary school. The evaluative tools used align with those used for student teaching and BEST assessment. In addition, the course incorporates monthly seminar meetings. Although much of the seminar's subject matter flows from the ongoing teaching experience, it deliberately addresses issues such as socially responsible teaching, professional disposition and habits of mind, teacher research, school governance, classroom management, conflict resolution, communication with parents/caregivers, and sensitivity to multicultural issues and inclusion. Continued professional development is stressed, including development of a professional portfolio, continued study and research, and establishing a supportive collegial network. Under the guidance of university supervision, teacher candidates assume full teaching responsibilities, including curriculum and lesson planning anchored in the principles of multicultural education and social responsibility, differentiated instruction, and effective organization and management, while carrying out other faculty duties, including participation in school governance and professional development. As educators for social justice and social responsibility, they engage in related school and community-based activities with students, families, and community members. Enrollment requires state-approved waiver of student teaching; performance-based assessment, including but not limited to successful completion of at least 27 prerequisite certification track credits and related course requirements while a matriculated candidate in the Elementary Education MA program, and permission of the Elementary Education program director.

<b>ED 0586 Supervised Teaching, Learning, and Reflection in a Community of Practice: Part II</b> <b>Prerequisite:</b> ED 0585.	<b>3 Credits</b>	<b>ED 0589 English Seminar</b> <b>3 Credits</b>
This course is the second of a two-semester supervised experience designed for candidates for whom traditional student teaching is not appropriate because they are currently teaching in an elementary school. Part one must be taken during the preceding semester. The evaluative tools used align with those used for student teaching and BEST assessment. In addition, the course incorporates monthly seminar meetings. Although much of the seminar's subject matter flows from the ongoing teaching experience, it deliberately addresses issues such as socially responsible teaching, professional disposition and habits of mind, teacher research, school governance, classroom management, conflict resolution, communication with parents/caregivers, and sensitivity to multicultural issues and inclusion. Continued professional development is stressed, including development of a professional portfolio, continued study and research, and establishing a supportive collegial network. Under the guidance of University supervision, teacher candidates assume full teaching responsibilities including curriculum and lesson planning anchored in the principles of multicultural education and social responsibility, differentiated instruction, and effective organization and management; while carrying out other faculty duties, including participation in school governance and professional development. As educators for social justice and social responsibility, they engage in related school and community-based activities with students, families and community members.		Candidates take this weekly seminar concurrently with student teaching or during the first semester of full-time teaching as a DSAP teacher. The seminar supports English teacher candidates to enact best practices in English education, helping them to select and review curricula, develop lessons and assessments for diverse learners, and work with struggling or difficult students. Weekly discussions draw on the teaching issues and problems faced by the English teacher candidates. The seminar also addresses more general school issues, such as the culture and organization schools, mandated Connecticut group-wide testing, classroom management, conflict resolution, communication with parents and caregivers, sensitivity to multicultural issues, and issues of inclusion. The job application process, including resume writing, interviewing skills, and developing a professional portfolio and teaching portfolio, are also addressed. Candidates receive information on the certification process.
<b>ED 0587 Directed Observation and Supervised Student Teaching I: Secondary Education</b> <b>Prerequisites:</b> Completion of all certification course requirements.	<b>3 Credits</b>	<b>ED 0590 Reflective Research Practicum in Teaching</b> <b>3 Credits</b>
This course is the first of a two-course, 15-week supervised student teaching experience in a local school, designed for secondary candidates whose student teaching assignment spans two semesters. Candidates engage in observation and teaching five days each week. Emphasized concepts include classroom management dynamics, teaching techniques, lesson plan organization, and faculty duties. Candidates receive assistance from their university supervisors and the cooperating teacher(s), who also observe and evaluate each student. Candidates must register with the director of student teaching placement at the beginning of the previous semester. Permission of Program Director required. Open only to candidates who have been formally accepted into the Teacher Preparation program.		Participants solve a practical problem in classroom teaching by applying educational research to a specific school situation.
<b>ED 0588 Directed Observation and Supervised Student Teaching II: Secondary Education</b> <b>Prerequisite:</b> ED 0587.	<b>3 Credits</b>	<b>ED 0591 Mathematics Seminar</b> <b>3 Credits</b>
This course is the second of a two-course, 15-week supervised student teaching experience in a local school, designed for secondary candidates whose student teaching assignment spans two semesters. Candidates engage in observation and teaching five days each week. Emphasized concepts include classroom management dynamics, teaching techniques, lesson plan organization, and faculty duties. Candidates receive assistance from their university supervisors and the cooperating teacher(s), who also observe and evaluate each student. Candidates must register with the director of student teaching placement at the beginning of the previous semester. Permission of Program Director required.		Candidates take this weekly seminar concurrently with student teaching or during the first semester of full-time teaching as a DSAP teacher. The seminar supports mathematics teacher candidates to enact best practices in mathematics education, helping them to select and review curricula, develop lessons and assessments for diverse learners, and work with struggling or difficult students. Weekly discussions draw on the teaching issues and problems faced by the mathematics teacher candidates. The seminar also addresses more general school issues, such as the culture and organization schools, mandated Connecticut group-wide testing, classroom management, conflict resolution, communication with parents and caregivers, sensitivity to multicultural issues, and issues of inclusion. The job application process, including resume writing, interviewing skills, and developing a professional portfolio and teaching portfolio, are also addressed. Candidates receive information on the certification process.
		<b>ED 0592 Science Seminar</b> <b>3 Credits</b>
		Candidates take this weekly seminar concurrently with student teaching or during the first semester of full-time teaching as a DSAP teacher. The seminar supports science teacher candidates to enact best practices in science education, helping them to select and review curricula, develop lessons and assessments for diverse learners, and work with struggling or difficult students. Weekly discussions draw on the teaching issues and problems faced by the science teacher candidates. The seminar also addresses more general school issues, such as the culture and organization schools, mandated Connecticut group-wide testing, classroom management, conflict resolution, communication with parents and caregivers, sensitivity to multicultural issues, and issues of inclusion. The job application process, including resume writing, interviewing skills, and developing a professional portfolio and teaching portfolio are also addressed. Candidates receive information on the certification process.

**ED 0593 World Language Seminar****3 Credits**

Candidates take this weekly seminar concurrently with student teaching or during the first semester of full-time teaching as a DSAP teacher. The seminar supports world language teacher candidates to enact best practices in world language education, helping them to select and review curricula, develop lessons and assessments for diverse learners, and work with struggling or difficult students. Weekly discussions draw on the teaching issues and problems faced by the world language teacher candidates. The seminar also addresses more general school issues, such as the culture and organization schools, mandated Connecticut group-wide testing, classroom management, conflict resolution, communication with parents and caregivers, sensitivity to multicultural issues, and issues of inclusion. The job application process, including resume writing, interviewing skills, and developing a professional portfolio and teaching portfolio, are also addressed. Candidates receive information on the certification process.

**ED 0594 Social Studies/History Seminar****3 Credits**

Candidates take this weekly seminar concurrently with student teaching or during the first semester of full-time teaching as a DSAP teacher. The seminar supports social studies/history teacher candidates to enact best practices in social studies/history education, helping them to select and review curricula, develop lessons and assessments for diverse learners, and work with struggling or difficult students. Weekly discussions draw on the teaching issues and problems faced by the social studies/history teacher candidates. The seminar also addresses more general school issues, such as the culture and organization schools, mandated Connecticut group-wide testing, classroom management, conflict resolution, communication with parents and caregivers, sensitivity to multicultural issues, and issues of inclusion. The job application process, including resume writing, interviewing skills, and developing a professional portfolio and teaching portfolio, are also addressed. Candidates receive information on the certification process.

**ED 0595 Independent Study****3 Credits**

This course requires self-selected activity by qualified candidates under faculty supervision. Options include field studies or library research with in-depth study of a problem for a specified time. Each candidate submits a preliminary proposal, detailed research design, and a comprehensive report and evaluation. The course requires frequent consultation with the faculty advisor.

**ED 0599 Professional Writing Seminar: Product of Learning**    **1-3 Credits**

**Prerequisite:** Completion of student teaching.

During this seminar, candidates complete a self-designed Product of Learning. Under advisement of the program faculty, candidates produce a learning outcome that relates directly to their future work as an educator (i.e., design an elective course in their field, submit a manuscript for publication, deliver a presentation at a regional or national conference, etc. Math candidates must complete the problem-solving portfolio for their product. Consult with advisor for information) Candidates are expected to develop authentic educational products, with the expectation that candidate-generated products will become contributions to the candidate's specialty area (i.e., English Education, Social Studies Education, etc). The process for this product will be supported in a 10-hour writing seminar course that, with substantial independent work, would be supervised by faculty editorial and revision input toward the development of worthy professional products. Students will be encouraged to work alongside peers who are also completing the Product of Learning.

## Educational Technology (MD)

**MD 0300 Introduction to Educational Technology****3 Credits**

This course covers the principles and applications of technology literacy in education. Topics include designing effective teaching strategies and environments conducive to learning; application of media and computer technologies in teaching; the use of the Web in teaching K-12; Microsoft Office applications; developing home pages; evaluating software; and examining new technologies for education. A field experience is included in this course.

**MD 0400 Introduction to Educational Technology****3 Credits**

This foundational course offers a hands-on overview of effective teaching methods using digital technologies. Candidates will gain understanding of the potential applications of educational technology in schools, organizational settings, and higher education. The course develops candidates' skills in using digital technologies to design and implement effective learning environments for students from diverse academic and social backgrounds.

**MD 0401 Special Topics in Educational Technology (Shell)****3 Credits**

This course explores contemporary issues in educational technology. Topics vary from semester to semester and will be chosen by faculty to address issues of current relevance that are not addressed in other course offerings.

**MD 0403 The School Library I****3 Credits**

This course, the first in a two-semester sequence, provides an introduction to the current policies and practices of effective school library programs. Candidates will examine the professional skills, dispositions and responsibilities related to the roles of the school library media specialist as defined in AASL standards: instructional partner, teacher, information specialist, program administrator and technology leader. Previously MD 0403A.

**MD 0404 The School Library II****3 Credits**

This course, a continuation of the material presented in MD 0403, provides an introduction to the current policies and practices of effective school library programs. Candidates will examine the professional skills, dispositions and responsibilities related to the roles of the school library media specialist as defined in AASL standards: instructional partner, teacher, information specialist, program administrator and technology leader. Previously MD 0403B.

**MD 0405 Management of School Library Resources for Teaching and Learning****3 Credits**

This course provides candidates with hands-on experience in managing print and digital resources. Topics include: approaches to supporting curriculum through collection development; strategies for purchasing and acquisition of databases, books, and multimedia materials; cataloging and creating MARC records to provide effective access. Each candidate will create a fully functioning circulation/catalog system complete with overdue books, statistics reporting, reserve and temporary items and special collection groups. Recent trends in web-based access to library resources will be explored.

**MD 0406 Introduction to Reference****3 Credits**

Candidates will explore print and online resources, and develop competency in selecting, acquiring and evaluating resources to meet student needs. Course activities will emphasize communication skills and instructional strategies needed to provide effective reference services in school libraries.

**MD 0409 The Literate Environment: P-12 Literature and Reading 3 Credits**

Candidates will explore factors related to creating a literate environment and the roles of school and classroom libraries. This course includes an overview of P-12 literature, an analysis of approaches to reading instruction and an examination of collaboration between reading professionals - literacy coaches, reading specialists and school library media specialists.

**MD 0413 Technology Methods for Middle School 3 Credits**

This interdepartmental course introduces students to the philosophy and organization of middle level education in the digital age. Students learn and apply instructional strategies and planning methods to integrate technology appropriate for middle-level learners from diverse academic and social backgrounds. During the required 25-hour field work experience, students are partnered with a classroom teacher to design and implement a technology-enhanced instructional module. Open only to students who have been formally accepted into the secondary education or educational technology programs.

**MD 0414 Geospatial Technologies in the Classroom 3 Credits**

In this course, we will explore geospatial technologies both outdoors and in the computer lab using GPS and GIS, and apply "community games" such as geocaching and protocols for conducting "real world" research with students. Participants will develop skills and applications of geospatial technologies for curricular integration.

**MD 0429 Teaching and Training with Online Environment 3 Credits**

This course will focus on ways in which teachers, trainers, and technology support professionals can use a variety of online tools to engage learners of all types. Students will explore ways to effectively employ webinars, podcasts, screen captures, and videos to support online and blended learning environments, as well as how to consider relevant technological issues such as bandwidth, file types, policies, and mobile device access.

**MD 0430 Digital Storytelling in the Classroom 3 Credits**

Studies have shown that our brain organizes, retains, and accesses information through story. Therefore, teaching with story allows students to remember what is being taught, access it, and apply it more easily. This course is designed for any educator looking to utilize technology to encourage storytelling at all levels. While maintaining a focus on traditional conventions of storytelling, such as character development, story mapping, and writing techniques, this course aims to develop the next generation of storytelling through a technological lens. Crosslisted with ED 0430.

**MD 0442 Design and Development of Multimedia Programs 3 Credits**

Participants will explore five different types of digital multimedia production and come to understand how it can best be adapted to create an entire learning experience. Candidates of all levels of experience will gain experience with four different types of multimedia tools: audio recording/editing, video recording/editing, drawing/comics/animation, and game creation, and will create a sample production for each type of tool. In addition, participants will explore a variety of platforms for combining various multimedia creations into a digital publication, such as an eBook and/or other interactive presentation. All material will be presented with an eye toward the practical use of these tools in K-12 classrooms, and will also address larger issues such as accessibility, copyright compliance, and technology and economic inequity.

**MD 0443 Integrating Instructional Technologies in Elementary School Education****3 Credits**

This course focuses on the application of a variety of instructional technologies including the Internet, spreadsheets, databases, graphic programs, and multimedia programs to structure effective learning environments for elementary education students. The course also emphasizes reviewing available teachers' resources including lesson plans, collaborative projects, and cultural diversity projects. Crosslisted with ED 0443.

**MD 0452 Integrating Technology in the Content Areas: Language Arts and Social Studies****3 Credits**

This course addresses the infusion of new technologies in teaching language arts and social studies curricula. Participants study and assess the educational values of innovative teaching strategies that employ a broad range of instructional materials and resources. Museum-based education and community partnerships are an integral part of this course. Based upon a sound theoretical framework, instructional models and best practices, participants design and create lesson activities and materials integrating technology resources including digital archives, digital storytelling, Geographic Information Systems (GIS) and other online and publishing tools. Crosslisted with ED 0452.

**MD 0460 Principles of Instructional Development 3 Credits**

This course covers the principles and application of systemic design of instruction in multimedia curricula design. Topics include designing, developing, and evaluating instructional materials; selecting media; conducting needs assessment and learner analysis; writing instructional objectives; and assessing learner performance. Candidates analyze, evaluate, and propose potential solutions to selected case studies and conduct a needs assessment.

**MD 0463 Methods for School Library Media 3 Credits**

Students will explore effective implementation of the school library media program, integrating current research and actualizing best practices in the field. Topics will include strategies for teaching and learning in multimedia environments, organizing information and support for K-12 classrooms and structured focus to help the future school library media specialist develop the skills and dispositions necessary to manage the roles and responsibilities of teacher and instructional partner.

**MD 0465 Emerging Technologies 3 Credits**

This course will examine specific technologies that are being used in the classroom at an increasing frequency. Specific technologies covered will vary depending on the section. The course can be taken more than once for credit depending on the topic covered with approval from the program director. This is a hands on course, and students will be working with the actual assigned technologies. Possible topics may include: AR/VR in the Classroom, Multimedia in the Classroom, Podcasting in the Classroom, E-Learning in the Classroom, Flipping the Classroom, Google Tools in the Classroom, Mobile Devices in the Classroom, QR Codes in the Classroom, Digital Badging.

<b>MD 0469 Establishing Worldwide Learning Communities through Technology</b>	<b>3 Credits</b>	<b>MD 0503 Research and Evaluation in K-12 Consultation and Leadership</b>	<b>3 Credits</b>
Worldwide developments continue to heighten awareness of the importance of connections between people on a global scale. When we consider our world from such a perspective, the need for understanding and education becomes glaringly apparent. This course views the benefits of using technology for communication and collaboration on a broad scale from the perspectives of both students and educators. Technologically connected learning communities around the globe occur through students forming partnerships to learn about each others' customs, languages, and cultures; teachers collaborating on teaching strategies and curriculum development; or administrators and policymakers exchanging views on educational issues. Candidates in this course examine the instructional strategies, issues, and concerns for connecting communities of learning globally along with the related technological tools and techniques.			Candidates will examine methods of empirical research and measurement, the role of descriptive and inferential statistics in data assessment and will perform critical analyses of effective quantitative, qualitative, and mixed methods research approaches. Topics will include: evaluation of current research studies and implications for professional practice; data assessment; the roles of the K-12 specialist: school library media specialist, technology specialist, special education/TESOL/Bilingual co-teacher and/or consultant in providing support for general education teachers and a diversified student population, and the skills needed for effective data-based decision making in school leadership. Crosslisted with RLD 0503.
<b>MD 0470 Designing for Online Instruction</b>			<b>MD 0540 Creating and Curating Digital Content</b>
This course examines the nature of teaching online, the development of online teaching courses and activities, and the use of integrated media resources in online learning in K-12, higher education, and professional development settings.			<b>3 Credits</b>
<b>MD 0472 Information Literacy Through Inquiry</b>			<b>MD 0541 21st Century Literacies in the Classroom</b>
Inquiry-based learning is a curricular framework that develops candidates' information literacy skills by encouraging rigorous investigation, information retrieval, collaboration, and reflection, paired with transformative learning technologies. Participants learn to locate, evaluate, and use a variety of electronic, print, multimedia, and interpersonal resources, and create a teaching unit using an online learning environment developed by internationally recognized leaders in inquiry-based education. Crosslisted with ED 0472.			<b>3 Credits</b>
<b>MD 0490 Achieving an Interdisciplinary Approach to Teaching through Technology</b>			<b>MD 0545 Designing and Developing Training Programs</b>
Achieving an interdisciplinary approach to teaching is a challenge facing many of today's educators. It is a set of complex tasks that involves integrating content across disciplines, good instructional design, effective planning, and creative pedagogical strategies while at the same time realizing educational equity among a diverse student population. Fortunately, technologies of instruction can help with the realization of these tasks. In preparation for the interdisciplinary challenge, teachers need exceptional instruction in the stages of interdisciplinary curriculum development with technology. This course addresses the selection, use, modifications, design, integration, and implementation of interdisciplinary curricula using technology in a culturally diverse environment. It aims at helping candidates in the course to develop their understanding of the potential use of technologies of instruction in achieving an interdisciplinary cross-cultural approach to education.			<b>3 Credits</b>
<b>MD 0500 Technology and Transformational Culture</b>			<b>MD 0546 Integrating the Arts and Technology in K-12 Teaching and Learning</b>
Candidates will explore contemporary philosophies in learning and information technologies. Recent research that supports effective approaches to technology integration, and the implications for evidence based practice in instructional settings in schools, agencies and professional development environments will be emphasized. Optional opportunities for field work based on individual professional goals.			<b>3 Credits</b>
			The value of the visual and performing arts in supporting essential critical thinking is well documented in recent research. Arts education is closely linked to every goal of school reform, academic achievement, social and emotional development, civic engagement, and equitable opportunity. Candidates will examine integration of the arts in content areas, and the robust opportunities in both formal and informal learning environments offered by technology applications and digital resources. Crosslisted with ED 0546.

**MD 0554 Understanding Media Literacy through Popular Culture and Mediated Environments** 3 Credits

Media literacy is the ability to access, analyze, evaluate, and produce media messages through a variety of mediated environments. Class time will consist of a blending of lectures and class discussions that will illustrate how popular culture has altered a generation of children while at the same time looking at how it is understood and perceived by them. Further, we will explore how media literacy can be integrated into classroom lessons to increase motivation and cultural awareness.

**MD 0585 Capstone Experience** 3 Credits

**Prerequisites:** All other required coursework in the Educational Technology program.

This course serves as the final summative assessment for educational technology students. Their final product should reflect their cumulative work from the program.

**MD 0590 Practicum in Educational Technology** 3-6 Credits

This practicum provides full-time students with firsthand experience in educational technology management.

**MD 0594 Survey of Innovation in Technology** 3 Credits

Technologies are being introduced at an astounding pace, and their adoption is increasingly being driven by consumers rather than by institutional needs and considerations. For educational technology managers, the ability to critically assess new tools and foresee where technology is heading are essential skills. In this course, students will examine the introduction of a variety of mass communication and digital technologies in the recent past in order to develop an understanding of the common elements that have characterized technical innovation in U.S. society and their potential use in education. In taking a case-study approach to the topic, students will conduct research on the relative success of, and societal/institutional reactions to, the various technologies. Students will also study failed technologies in an effort to understand what elements might have been missing. The course will culminate with each student developing their own measurement and assessment of a current "new" technology and develop a strategic plan as to how it might be pursued/implemented in their own school or district. This course is only open to students enrolled in the Sixth Year Certificate program in Educational Technology.

**MD 0595 Independent Study** 3-6 Credits

Candidates complete individual study in educational technology with a faculty member after submitting a proposal for independent study prior to registration.

**MD 0596 Leading and Supporting Educational Technology in K-12 Schools** 6 Credits

This course is designed to address the specific needs of educational technology professionals for K-12 technology leadership positions. The course will allow students to simultaneously examine both the issues and practices involved in managing technology operations and the technical knowledge required to implement, oversee, and contract for the services required to deliver tech-based learning. The course will lead students through such leadership topics as strategic planning, budgeting, professional development, legal and ethical issues, policy development, and team building, along with the technical concepts of networks, servers, devices and device management, security, and web services as needed to manage technical staff and successfully interact with technology providers. Students will also connect with a technology administrator or director to gain first-hand knowledge of the issues and challenges faced in the field.

# **Electrical and Computer Engineering (ECE)**

**ECE 0405 Electronic Materials** 3 Credits

This course describes the properties and applications of certain materials used in the design and manufacture of electronic assemblies. Ceramics are often used as insulators, heat sinks, and substrates for interconnection structures. The course presents electrical, mechanical, and thermal properties of various ceramics, along with methods of fabricating and machining ceramic structures. Adhesives used to mount components and to replace mechanical fasteners such as screws and rivets provide connections that are stronger and take up less space. The course examines properties of adhesives such as epoxies, silicones, and cyanoacrylates under conditions of high temperature storage and humidity, along with methods of applications. Solders used to interconnect electronic components and assemblies are selected for temperature compatibility, mechanical properties, and reliability. The course emphasizes the new lead-free solder materials and presents the properties of plastic materials and the methods of forming plastic structures.

**ECE 0406 Advanced Digital Design** 3 Credits

This course examines computer architecture implemented using a hardware design language and programmable logic devices. Students learn the VHDL hardware description language, and learn to use modern design, simulation, and synthesis software. Students design, verify, build and test digital logic circuits using industry standard development boards, and field programmable gate array (FPGA) technology.

**ECE 0411 Digital Signal Processing** 3 Credits

Modern signal processing tools including vector spaces, bases and frames, operators, signal expansions and approximation, as well as classical signal processing tools including Fourier and z transforms, filtering and sampling, estimation, applications, and implementation.

**ECE 0415 Engineering Applications of Numerical Methods** 3 Credits

This course provides students with the theoretical basis to proceed in future studies. Topics include root-finding, interpolation, linear algebraic systems, numerical integration, numerical solution of ordinary and partial differential equations, modeling, simulation, initial boundary value problems, and two point boundary value problems.

**ECE 0420 Readings in Electrical and Computer Engineering** 3 Credits

Students formulate a project proposal, perform literature surveys, and learn the finer points of technical writing and presentation at the graduate level. The course requires a meta-paper written about the literature in the field. It emphasizes the basics of technical writing and research, and is organized to emphasize methods of the writing and the research process. Students learn to state a problem, the techniques of analysis, methods of investigation, and functional organization.

**ECE 0423 Thermal Management of Microdevices** 3 Credits

This course addresses the thermal design in electronic assemblies which includes thermal characteristics, heat transfer mechanisms and thermal failure modes. Thermal design of electronic devices enables engineers to prevent heat-related failures, increase the life expectancy of the system, and reduce emitted noise and energy consumption. This course provides the required knowledge of heat transfer for such analysis and various options available for thermal management of electronics. This course also presents advanced methods of removing heat from electronic circuits, including heat pipes, liquid immersion and forced convection. Formerly ECE 0425.

<b>ECE 0431 Biomedical Signal Processing</b>	<b>3 Credits</b>	<b>ECE 0448L Embedded Microcontrollers Lab</b>	<b>1 Credit</b>
This course presents an overview of different methods used in biomedical signal processing. Signals with bioelectric origin are given special attention and their properties and clinical significance are reviewed. In many cases, the methods used for processing and analyzing biomedical signals are derived from a modeling perspective based on statistical signal descriptions. The purpose of the signal processing methods ranges from reduction of noise and artifacts to extraction of clinically significant features. The course gives each participant the opportunity to study the performance of a method on real, biomedical signals.		<b>Fee:</b> \$80 Engineering Lab Fee This laboratory covers the basic operation and applications of a microprocessor. Students learn to program a microprocessor to control applications such as motor speed by the use of an emulator connected to a PC. They design a circuit using a microprocessor for a specific application and write a program to control the circuit. On completion of the program, they use the emulator to program an actual microprocessor for use in their circuit.	
<b>ECE 0432 Biomedical Imaging</b>	<b>3 Credits</b>	<b>ECE 0451 Nanoelectronics I</b>	<b>3 Credits</b>
<b>Prerequisite:</b> ECE 0431.		Building on the two introductory courses in nanotechnology, this course is the first of two that describe how nanotechnology can be integrated into the electronics industry. The unique electrical, mechanical, and optical properties of structures in the nanometer range and how they may be applied to electronics products are discussed. Principles of electronic materials, semiconductor devices, and microfabrication techniques will be extended to the nanoscale. Students will increase their knowledge of electronic structure, quantum mechanics, and the behavior of optoelectronic and low-dimensional systems. Students make extensive use of the available literature to seek out potential applications of nanotechnology.	
<b>ECE 0433 Biomedical Visualization</b>	<b>3 Credits</b>	<b>ECE 0455 Sensor Design and Application</b>	<b>3 Credits</b>
An introduction to 3D biomedical visualization. Various technologies are introduced, include UltraSound, MRI, CAT scans, PET scans, etc. Students will learn about spatial data structures, computational geometry and solid modeling with applications in 3D molecular and anatomical modeling.		This course covers the design, fabrication, and properties of sensors intended to measure a variety of parameters, such as stress, temperature, differential pressure, and acceleration. Sensors of different types are used in a wide range of equipment, especially automated equipment, to detect changes in state and to provide the signals necessary to control various functions. Sensors are generally connected to electronics systems that process and distribute the signals. The support electronics must identify the signal, separate it from noise and other interference, and direct it to the appropriate point. These support electronics are a critical part of the sensor technology; students discuss their design and packaging in detail.	
<b>ECE 0435 Microelectronics</b>	<b>3 Credits</b>	<b>ECE 0457 Advanced Linear Systems</b>	<b>3 Credits</b>
This course considers the methods of interconnecting electronic components at very high circuit densities and describes methods of designing and fabricating multilayer printed circuit boards, co-fired multilayer ceramic substrates, and multilayer thin film substrates in detail. It discusses the methods of depositing thick and thin film materials, along with their properties, and analyzes these structures and compares them for thermal management, high frequency capability, characteristic impedance, cross-coupling of signals, and cost. The course also includes techniques for mounting components to these boards, including wire bonding, flip chip, and tape automated bonding.		Modeling and analysis of linear systems. Introduction to linear algebra with emphasis on matrices, linear transformations on a vector space, and matrix formulation of linear differential and difference equations. State variable analysis of advanced linear systems. Transform methods using complex variable theory, and time-domain methods including numerical algorithms.	
<b>ECE 0440 Computer Graphics</b>	<b>3 Credits</b>	<b>ECE 0460 Network Programming</b>	<b>3 Credits</b>
This course supports the visualization and computer systems domain with computer gaming applications. It is an introduction to GUI and game design and computer graphics concepts. Topics include human-computer interfaces using the AWT; applied geometry; homogeneous coordinate transforms.		This course covers principles of networking and network programming. Topics include OSI layers, elementary queuing theory, protocol analysis, multi-threading, command-line interpreters, and monitors. Students write a distributed computing system and check their performance predictions with experiments.	
<b>ECE 0441 Computer Systems Architecture</b>	<b>3 Credits</b>	<b>ECE 0461 Green Power Generation</b>	<b>3 Credits</b>
An investigation into computer architectures (past, present and future). We will explore various hardware and software techniques designed to maximize parallelism and improve performance. Front-end design (branch prediction, instruction fetch, trace caches), HW/SW techniques of parallelism, Memory system design (caching, prefetching), Technology issues (low power, scaling, reliability, nanotechnology), multiprocessors. Class will include a mix of lectures and discussions on assigned readings of recent publications. Students will be responsible for leading and participating in these discussions. A course project exploring a particular topic in depth will be required.		This course compares various methods of green power generation including solar power, wind power, water power, and several others. This course covers how power is generated from these sources, the startup costs, the efficiency, and the practicality. These methods are compared to the present most common method of using oil and gas to heat water into steam to turn turbines. The student does not necessarily need a background in engineering and any necessary background material will be covered to the understanding of all.	
<b>ECE 0448 Embedded Microcontrollers</b>	<b>3 Credits</b>		
Introduction to embedded microcontrollers in electronic and electromechanical systems. Hardware and software design techniques are explored for user and system interfaces, data acquisition and control. These tools are used to develop software code for practical applications such as motor speed control and voltage regulation for power supplies.			

**ECE 0470 Network Embedded Systems****3 Credits**

This course covers distributed development - connecting peripherals to networks via Java. Plug-and-play paradigm is used to add services on the fly. Students learn about the following topics: multicast and unicast protocols, service leasing, lookup services, remote events, sharing data between distributed processes, and distributed transactions. The course also covers interfacing hardware (sensors, robotics, etc.) to the Web.

**ECE 0477 Power Security and Reliability****3 Credits****Prerequisite:** ECE 0495.

This course focuses on Power System Protection and Relaying to allow the design of robust and reliable power systems. After reviewing the need for protection of power system elements (motors, generators, transformers, and transmission/distribution lines), the course: Explores developments in the creation of smarter, more flexible protective systems based on advances in the computational power of digital devices and the capabilities of communication systems that can be applied within the power grid, Examines the regulations related to power system protection and how they impact the way protective relaying systems are designed, applied, set, and monitored, Considers the evaluation of protective systems during system disturbances and describes the tools available for analysis, Addresses the benefits and problems associated with applying microprocessor-based devices in protection schemes' Contains an expanded discussion of internal protection requirements at dispersed generation facilities. MatLab is used to solve homework problems and do team design projects.

**ECE 0478 Electromagnetic Compatibility****3 Credits**

This course presents design techniques to minimize electromagnetic interference (EMI) from or to it. The various sources of Radio-frequency emissions from electronic systems, coupling paths for the transfer of undesired electromagnetic energy will be introduced. Electromagnetic Compatibility (EMC) requirements for electronic products will be presented along with techniques to measure EMI. High speed digital signal transmission integrity related issues and methods to overcome signal integrity will be introduced. Techniques to minimize conducted and radiated Emissions through filtering and grounding will be presented. System design for EMC will be presented.

**ECE 0479 Communication Systems****3 Credits**

This course focuses on analog and digital communication systems and the effects of noise on those systems. It includes analog modulation and demodulation techniques (amplitude, frequency, and phase modulation) and digital modulation and demodulation techniques (ASK, FSK, PSK, PCM, and delta modulation). It discusses performance analysis of analog and digital communication systems under noise with applications of probability theory to the analysis. It discusses information measure, source coding, error correcting codes and Spread spectrum systems.

**ECE 0480 Wireless Systems I****3 Credits**

The applications of wireless communication are expanding rapidly - from cellular phones to wireless internet to household appliances - and involve many disciplines other than microwave transmission. This course covers several aspects of wireless communication, including antenna design, FCC regulations, and multi-channel transmission protocols. In addition, it discusses modern design approaches such as Bluetooth. Students learn how analog and digital signals are coded. The course also discusses transmission during interference and EMI/RFI as well as fiber optics communication.

**ECE 0483 Independent Study****3 Credits**

Students pursue special topics, projects, and/or readings in selected areas. Students must meet with the instructor to discuss the proposed topic of study.

**ECE 0495 Power Generation and Distribution****3 Credits**

This course considers the generation and distribution of electrical power to large areas. Three-phase networks are described in detail, including both generators and loads. Methods of modeling distribution systems by per-unit parameters are covered, along with power factor correction methods. Fault detection and lightning protection methods are also described. Some economic aspects of power generation and distribution are presented.

**ECE 0496 Fault Analysis in Power Systems****3 Credits****Prerequisite:** ECE 0495.

This course covers three types of faults in electrical power grids: open lines, lines shorted to ground, and lines shorted to each other. Methods of locating faults are covered, along with an analysis of the effects. Methods of protection and fault isolation are also covered.

**ECE 0505 Advanced Power Electronics****3 Credits**

This course considers the design and application of electronic circuits related to power generation and conversion including inverters, power supplies, and motor controls. Topics include AC-DC, DC-DC, DC-AC, AC-AC converters, resonant converters, and the design of magnetic components. Models of electric motors and generators are presented to facilitate the design of controls for these structures.

**ECE 0508 Engineering Entrepreneurship****3 Credits**

Designed specifically for engineers and scientists having a passion for technological innovation, this popular interdisciplinary course focuses on the roles of inventors and founders in successful high-tech ventures. By providing knowledge and skills important to the creation and leadership of such startups, the course aims to train the founders and leaders of tomorrow's high-tech companies. This course makes use of case-studies and active learning to engage the students in venture creation. Guest lectures enable industry experts to share their insights for venture formation.

**ECE 0510L Product Design Laboratory****1 Credit****Fee:** \$80 Engineering Lab Fee**Prerequisite:** ECE 0405.

This laboratory course provides hands-on experience in measuring and analyzing the electrical and mechanical properties of materials used in the design of electronic products. It also covers thermal analysis and methods of removing the heat from electronic circuits. Experiential learning includes measurement of temperature coefficient of expansion, measurement of thermal resistance, measurement of tensile strength, measurement of material hardness, temperature measurement of electronic components, Peltier effect (thermoelectric coolers), heat pipes, convection cooling (fins and air flow), and heat flow across a bonding interface such as solder or epoxy.

**ECE 0520L System Design Lab****1 Credit****Fee:** \$80 Engineering Lab Fee**Corequisite:** ECE 0455.

This laboratory provides students with an understanding of sensors and non-linear control systems. Experiments include temperature sensors such as thermocouples, thermistors, and infrared, motion sensors, strain gauges, nonlinear servos, and computer analysis of nonlinear systems.

<b>ECE 0550 Thesis I</b>	<b>3 Credits</b>	<b>EE 0221 Frequency Domain Circuit Analysis</b>	<b>3 Credits</b>
<b>Prerequisite:</b> ECE 0420.		<b>Prerequisites:</b> MA 0245, EE 0213.	
The master's thesis tests students' abilities to formulate a problem, solve it, and communicate the results. The thesis is supervised on an individual basis. A thesis involves the ability to gather information, examine it critically, think creatively, organize effectively, and write convincingly; it is a project that permits students to demonstrate skills that are basic to academic and industry work. The student must also submit a paper for possible inclusion in a refereed journal appropriate to the topic.		Students perform frequency domain analysis of passive and active circuits, study transient and AC circuit analysis manually and with computer-aided applications, and examine the transient response of first and second order circuits. The course introduces pole and zero concepts and applies them to circuit analysis, and introduces computer methods of circuit analysis and design.	
<b>ECE 0551 Thesis II</b>	<b>3 Credits</b>	<b>EE 0231 Introduction to Electronics Circuits and Devices</b>	<b>3 Credits</b>
<b>Prerequisite:</b> ECE 0550.		<b>Prerequisite:</b> EE 0213.	
The master's thesis tests students' abilities to formulate a problem, solve it, and communicate the results. The thesis is supervised on an individual basis. A thesis involves the ability to gather information, examine it critically, think creatively, organize effectively, and write convincingly; it is a project that permits students to demonstrate skills that are basic to academic and industry work. The student must also submit a paper for possible inclusion in a refereed journal appropriate to the topic.		This first course in electronics teaches basic principles and technologies to understand, analyze, and design electronic circuits. The course reviews the properties of semiconductor materials used in the fabrication of diodes, bipolar junction transistors, and field effect transistors. Students analyze amplifier biasing techniques and develop circuit models of semiconductor devices that are used to analyze and design electronic circuits. Computer simulations of circuits are used to illustrate the fundamental principles.	
<b>ECE 0591 Capstone Professional Project I</b>	<b>3 Credits</b>	<b>EE 0231L Electronics Circuits Lab</b>	<b>1 Credit</b>
<b>Prerequisites:</b> Completion of 9 credits in the MS ECE program.		<b>Fee:</b> \$80 Engineering Lab Fee	
In these two semester capstone courses, students form teams, perform a technical study, and design, develop, and test electrical and computer systems based on their customer's requirements. The results of these projects provide a library of case studies, designs, development techniques, and project management skills that are of interest to local industry professionals. A capstone prospectus must be developed at the beginning of the capstone sequence.		<b>Corequisite:</b> EE 0231.	
<b>ECE 0592 Capstone Professional Project II</b>	<b>3 Credits</b>	<b>Prerequisite:</b> EE 0213L.	
<b>Prerequisite:</b> ECE 0591.		Students build and test circuits using diodes, bipolar junction transistors, and MOSFETs. They use the principles developed in EE 0231 to analyze, build, and test amplifier and oscillator circuits.	
<b>EE 0213 Introduction to Electric Circuits</b>	<b>3 Credits</b>	<b>EE 0301 Signal and Systems I</b>	<b>3 Credits</b>
<b>Prerequisites:</b> MA 0146, PS 0116, PS 0116L.		<b>Corequisite:</b> MA 0251.	
This course introduces engineering students to the analysis of linear electric circuits. The course covers the basic laws of circuit behavior and analysis techniques, including descriptions of circuit elements and electronic variables, and considers circuit theorems and principles for insightful analysis of electrical circuits. The course introduces basic concepts and analysis of networks.		<b>Prerequisite:</b> EE 0221.	
<b>EE 0213L Electric Circuits Lab</b>	<b>1 Credit</b>	This course studies and classifies continuous and discrete signals and systems. It presents time domain and discrete analysis of signals using the Fourier series, Laplace transforms, Fourier transforms, z-transforms, and fast Fourier transforms (e.g., differential equations, convolution, concept and meaning of impulse response); and examines frequency domain analysis, the Fourier series, and the Fourier transform as an alternative to time domain analysis. Students gain further insights into signal and system properties through the Laplace transform methods and the concept of the transfer function.	
<b>Fee:</b> \$80 Engineering Lab Fee		<b>EE 0315 Nanoelectronics I</b>	<b>3 Credits</b>
<b>Corequisite:</b> EE 0213.		<b>Prerequisite:</b> EG 0212.	
Students use common electrical laboratory instruments (oscilloscopes, meters, and signal generators) and elemental circuit components to construct and analyze basic electrical circuits. They study the application of circuit theorems and circuit elements (RL and RC); conduct experiments with transient, steady state, and frequency response; and use software applications to simulate and analyze circuit performance.		Building on the two introductory courses in nanotechnology, this course is the first of two that describe how nanotechnology can be integrated into the electronics industry. The unique electrical, mechanical, and optical properties of structures in the nanometer range and how they may be applied to electronics products are discussed. Principles of electronic materials, semiconductor devices, and microfabrication techniques will be extended to the nanoscale. Students will increase their knowledge of electronic structure, quantum mechanics, and the behavior of optoelectronic and low-dimensional systems. Students make extensive use of the available literature to seek out potential applications of nanotechnology. Intended for students interested in the minor in nanotechnology/nanoelectronics track. Also open to interested graduate students in ECE.	

<b>EE 0331 Analog Electronics Design</b>	<b>3 Credits</b>	<b>EE 0346L Microcontroller Lab</b>	<b>1 Credit</b>
<b>Prerequisites:</b> EE 0221, EE 0231.		<b>Fee:</b> \$80 Engineering Lab Fee	
This advanced course in electronics examines high frequency response of bipolar junction transistor and field-effect transistor amplifiers using hybrid two-port active device models. Students consider the effect of feedback and frequency compensation techniques on the amplifier response and study a variety of analog circuits with respect to their analysis and applications, including active filters, oscillators, waveform generation and shaping, voltage regulator, and communication circuits. The course introduces basic power electronics device components.		<b>Corequisite:</b> EE 0346.	
<b>EE 0331L Analog Electronics Lab</b>	<b>1 Credit</b>	<b>EE 0355 Sensor Design and Applications</b>	<b>3 Credits</b>
<b>Corequisite:</b> EE 0331.		<b>Prerequisite:</b> EE 0213.	
<b>Prerequisite:</b> EE 0231L.		This course covers the design, fabrication, and properties of sensors intended to measure a variety of parameters, such as stress, temperature, differential pressure, and acceleration. Sensors of different types are used in a wide range of equipment, especially automated equipment, to detect changes in state and to provide the signals necessary to control various functions. Sensors are generally connected to electronics systems that process and distribute the signals. The support electronics must identify the signal, separate it from noise and other interference, and direct it to the appropriate point. These support electronics are a critical part of the sensor technology; students discuss their design and packaging in detail.	
<b>EE 0335 Microelectronics</b>	<b>3 Credits</b>	<b>EE 0360 Power Electronics</b>	<b>3 Credits</b>
<b>Prerequisite:</b> EE 0331.		<b>Prerequisites:</b> EE 0301, EE 0221.	
This course covers three methods of fabricating high-density interconnection structures for manufacturing microelectronic assemblies: thick films, thin films, and printed circuit boards. The thick and thin film technologies use substrates of metalized ceramic to make the interconnections between components and are capable of fabricating integrated resistors with high precision and stability. The printed circuit board technology uses organic materials with copper laminates to etch the interconnection patterns. The individual layers are laminated to produce the multilayer structure, but do not include integrated resistors. Each of the technologies is examined to determine the electrical and physical properties of the structures. Such parameters as distributed capacitance and how they affect circuit performance are discussed. In the laboratory accompanying the course, students have the opportunity to fabricate thick and thin film circuits and to examine the structure of printed circuit boards.		This course covers the design and operation of power electronics circuits, such as power supplies and motor controls. Using electronic circuit models for transistors and diodes developed in earlier courses, students analyze and design power circuits. Particular attention is paid to power dissipation and packaging. The accompanying laboratory course, EE 0360L, provides practical experience in conjunction with the lecture material.	
<b>EE 0346 Embedded Microcontrollers</b>	<b>3 Credits</b>	<b>EE 0361 Green Power Generation</b>	<b>3 Credits</b>
<b>Prerequisite:</b> CR 0245.		This course compares various methods of green power generation including solar power, wind power, water power, and several others. This course covers how power is generated from these sources, the startup costs, the efficiency, and the practicality. These methods are compared to the present most common method of using oil and gas to heat water into steam to turn turbines. The student does not necessarily need a background in engineering and any necessary background material will be covered to the understanding of all.	
This course covers the architecture of microcontrollers, including how they are constructed internally and how they interface with external circuitry. Applications for microcontrollers in both complex and simple equipment are discussed. Students learn how to apply and how to select a microcontroller for a given application. Students will learn to program the microcontroller to develop programming skills. The software tools will be used to develop software code for practical applications such as servo motor control, sensor reading, and data display. An accompanying laboratory course covers the programming of microprocessors to do a specific task. An accompanying laboratory course covers the programming of microprocessors to do a specific task. This course covers the programming and application of the PIC microcontroller. Students are able to develop programming skills using assembly language and software tools such as MPLAB IDE and MultiSim MCU. These tools are used to develop software code for practical applications such as motor speed control and voltage regulation for power supplies.		<b>EE 0377 Power Security and Reliability</b>	<b>3 Credits</b>
		<b>Prerequisite:</b> EE 0385.	
		This course focuses on Power System Protection and Relying to allow the design of robust and reliable power systems. After reviewing the need for protection of power system elements (motors, generators, transformers, and transmission/distribution lines), the course: Explores developments in the creation of smarter, more flexible protective systems based on advances in the computational power of digital devices and the capabilities of communication systems that can be applied within the power grid, Examines the regulations related to power system protection and how they impact the way protective relaying systems are designed, applied, set, and monitored, Considers the evaluation of protective systems during system disturbances and describes the tools available for analysis, Addresses the benefits and problems associated with applying microprocessor-based devices in protection schemes' Contains an expanded discussion of internal protection requirements at dispersed generation facilities. MatLab is used to solve homework problems and do team design projects.	

**EE 0378 Electromagnetic Compatibility****Prerequisites:** EE 0231, EE 0301, PS 0271.

This course presents design techniques to minimize electromagnetic interference (EMI) from or to it. The various sources of Radio-frequency emissions from electronic systems, coupling paths for the transfer of undesired electromagnetic energy will be introduced. Electromagnetic Compatibility (EMC) requirements for electronic products will be presented along with techniques to measure EMI. High speed digital signal transmission integrity related issues and methods to overcome signal integrity will be introduced. Techniques to minimize conducted and radiated Emissions through filtering and grounding will be presented. System design for EMC will be presented.

**EE 0379 Communication Systems****3 Credits****Prerequisite:** EE 0301.

This course focuses on analog and digital communication systems and the effects of noise on those systems. It includes analog modulation and demodulation techniques (amplitude, frequency, and phase modulation) and digital Modulation and demodulation techniques (ASK, FSK, PSK, PCM, and delta modulation). It discusses performance analysis of analog and digital communication systems under noise with applications of probability theory to the analysis. It discusses information measure, source coding, error correcting codes and Spread spectrum systems.

**EE 0385 Power Generation and Distribution****3 Credits****Prerequisite:** EE 0221.

This course considers the generation and distribution of electrical power to large areas. Three-phase networks are described in detail, including both generators and loads. Methods of modeling distribution systems by per-unit parameters are covered, along with power factor correction methods. Fault detection and lightning protection methods are also described. Some economic aspects of power generation and distribution are presented.

**EE 0386 Fault Analysis in Power Systems****3 Credits****Prerequisite:** EE 0385.

This course covers three types of faults in electrical power grids: open lines, lines shorted to ground, and lines shorted to each other. Methods of locating faults are covered along with an analysis of the effects of such faults. Methods of protection and fault isolation are also covered.

## **Engineering (EG)**

**EG 0031 Fundamentals of Engineering I****3 Credits****Prerequisite:** PS 0115\*.

This course provides core engineering knowledge and competencies in a highly interactive class format. Topics include professional skills such as technical writing and presentation, guidelines for professional engineering practice, and career preparation. Introduction to the fields, roles, and industries of engineering also serves as a basis for selection of engineering major field. Hands-on team projects are core learning experiences. They form a structured introduction to the implementation of principles of design and engineering methodologies, system engineering management, and presentation skills. Guest presenters and field trips augment this course, which is taught by interdisciplinary faculty teams. (\*indicates concurrency allowed)

**EG 0060 STEM of Guitar****3 Credits****Fee:** \$250 Engineering Lab Fee

This course looks at the design elements, manufacturing and assembly of solid-body electric guitars. Science, technology, engineering, and mathematics (STEM) concepts that relate directly to guitars are used to help students make an applied learning connection. Each student will construct their own electric guitar. Course will cover wood species and the environment, guitar headstock design features, chemistry of finishes, math applications in a guitar, physical science aspects of the guitar such as mechanical systems, concepts of sound waves, string tension, fretboard layout, intonation, and electronics. Studio-style class, lecture and lab time combined throughout course. The \$250 lab fee applies to cover materials.

**EG 0130 Engineering Graphics I****3 Credits**

This is a basic course in engineering graphics principles and is taught simultaneously with SolidWorks, a 3D modeling design application. Using traditional and computer design, the course stresses geometric constructions, orthographic projection, dimensioning, sectional views, 3D part modeling, assembly modeling, drafting and engineering drawings, animation and geometric tolerancing. The course stresses aesthetics and technical sketching. Students will gain a working knowledge of SolidWorks in engineering design. Course requires a computer that runs Microsoft Windows.

**EG 0145 Mathematical Analysis****3 Credits****Attributes:** EVAP Environmental Studies: Applied Professional Skills**Corequisites:** EG 0145P, MA 0146.**Prerequisite:** MA 0145.

In this course students will learn mathematical and numerical methods such as differentiation, integration, and Fourier analysis and how to apply these methods to solve scientific problems. Additionally, the course will cover statistics including data analysis, trend fitting, data correlation, and interpolation. Students will learn to use MATLAB as a tool but also become proficient in programming.

**EG 0145P Mathematical Analysis PLG****0 Credits****EG 0260 Robots****3 Credits****Prerequisite:** PS 0115.

Introductory course in robotics develops understanding of how robotic systems integrate sensors, actuators, and control systems to achieve specific goals. Principles of autonomy, programming, wireless communications, sensor applications, mechatronics, electrical power, electric motors, pneumatics, structure, and locomotion will be understood and applied. Design of robotic subsystems will utilize multiple areas of knowledge. The course will involve application of statistical analysis to quantify robot performance. Service learning is an integral part of the course. All participants will participate in weekly mentoring of a youth robotics competition team to put into practice the principles learned in class, and to learn through community interaction from other students using robots to accomplish different feats.

**EG 0300 Feedback Control Systems****3 Credits****Prerequisites:** MA 0251, EE 0301.

This course emphasizes analysis and synthesis of closed loop control systems using both classical and state-space approaches with an emphasis on electro-mechanical systems. The mathematical requirements include the Laplace transform methods of solving differential equations, matrix algebra, and basic complex variables. The discussion of classical control system design includes the modeling of dynamic systems, block diagram representation, time and frequency domain methods, transient and steady state response, stability criteria, controller action [Proportional (P), proportional and integral (PI), Proportional, integral, and derivative (PID) and pseudo-derivatives feedback], root locus methods, the methods of Nyquist and Bode, and dynamics compensation techniques. The discussion of state-space methods includes formulation and solution (analytical and computer-based) of the state equations and pole-placement design. The course integrates the use of computer-aided analysis and design tools (MATLAB) so as to ensure relevance to the design of real world controlled electro-mechanical systems using case studies and applications to electrical and mechanical systems. Includes lab (hardware-based) exercises. Formerly MC 0300.

**EG 0305 Design of Mechatronics Systems****3 Credits****Prerequisite:** Senior standing.

This course covers development of mechatronics theory and applications to systems dependent upon the integration of mechanical, electrical and computer engineering. Students assemble hardware components to create a product design that fulfills a specified task in a mechatronics system. Students develop design skills in mechanisms, electrical devices, and software to create, test, and verify system function. Formerly MC 0305.

**EG 0330 Engineering Graphics II****3 Credits**

This course introduces CATIA Version 5; the leading CAD/CAM/CAE application used by automotive, aerospace, shipbuilding, and consumer goods industries. It provides mechanical, electrical, automotive, aerospace, and marine engineers and architects with the design tools to take products from concept to completion - in one seamless application. This course covers basic solid modeling concepts of individual sheetmetal and machined parts from detailed drawings. "Complex Shape Modeling" using "wireframe concepts" and "surface-based" modeling is covered. Building of assemblies of components and control of their positioning and orientation, as well as motion simulation is covered. Fully detailed production drawings of components and assemblies are also covered. Formerly CD 0212.

**EG 0350 Advanced Programmable Logic Control (PLC) Systems****3 Credits****Prerequisites:** PS 0116, MA 0245.

This course will give students advanced concepts in programmable logic controllers and their applications and interfacing to industrial controls in the areas of automation, manufacturing, and others. Topics include bit operations, data manipulation, industrial PLC network utilizing Ethernet, ControlNet, and DeviceNet. Data sharing and distributed PLC programming techniques along with fundamentals of touch panel programming and operation are studied. State of the art software used: MultiSim, LabView, Cosivis, Veep, Automation Studio, and RS Logix 500. It will include also: input/output ports, intermittent and continuous process control, arithmetic and comparison instruction, function block diagrams, indirect and indexed addressing, and sequential function charts. The course will consist of: lectures, group discussions, case studies, a term project, and computer simulation. Formerly MF 0350.

**EG 0360 Engineering Project Management****3 Credits****Attributes:** HASM Humanitarian Action Minor Skills/Method Course

This course concentrates on the general methodology of managing an engineering project from concept to operational use with emphasis on the functions, roles, and responsibilities of the project manager. Study of the basic principles and techniques related to controlling resources (i.e. people, materials, equipment, contractors, and cash flow) to complete a project on time and within budget while meeting the stated technical requirements. Through group and individual activities, including case study review and field work, students will learn to apply project management tools and techniques. The course will be taught by teaching each phase of project management as we complete the relevant aspects of the project in the field. There will be some classroom time for introducing concepts, and planning. However, the majority of time each day will be spent in the field executing the project, putting into practice the phases of project management. The course will prepare students with the ability to learn the necessary background information and hands-on technical skills, to be flexible and adaptable in difficult environments. These skills will be valuable in many areas, particularly in the planning and execution of humanitarian action and engineering in developing countries. Enrollment by permission only. Students must be able to study abroad.

**EG 0390 Senior Design Project I****3 Credits****Prerequisite:** Completion of all non-elective program courses; completion of other program requirements to enable graduation within the year of completion of EG 0391.

In this capstone course, students work in teams on advanced projects that emphasize engineering design with due attention to design constraints and engineering standards. The overarching scope of this course is to transform engineering students to practicing engineers. Under the guidance of a faculty instructor and a mentor, each team conducts literature searches, write a technical proposal and its members develop skills in information analysis and synthesis; they model and test prototypes of their devices, and make frequent oral and poster presentations of their work to faculty and peers, and submit timely progress reports. In the process, they receive instruction in effective communication and presentation practices, and develop an appreciation of teamwork and collective success. This two-semester course begins in the fall of the academic year and concludes at the end of the spring term with a final team oral presentation and a final written report, and a working prototype of the team's project. It also includes sample hardware fabrication in the machine laboratory.

**EG 0391 Senior Design Project II****3 Credits****Prerequisite:** EG 0390.

In this capstone course, students work in teams on advanced projects that emphasize engineering design with due attention to design constraints and engineering standards. The overarching scope of this course is to transform engineering students to practicing engineers. Under the guidance of a faculty instructor and a mentor, each team conducts literature searches, write a technical proposal and its members develop skills in information analysis and synthesis; they model and test prototypes of their devices, and make frequent oral and poster presentations of their work to faculty and peers, and submit timely progress reports. In the process, they receive instruction in effective communication and presentation practices, and develop an appreciation of teamwork and collective success. This two-semester course begins in the fall of the academic year and concludes at the end of the spring term with a final team oral presentation and a final written report, and a working prototype of the team's project. It also includes sample hardware fabrication in the machine laboratory.

<b>EG 0398 Internship</b>	<b>1-3 Credits</b>
<b>EG 0399 Independent Study</b>	<b>1-4 Credits</b>
<b>EG 0400 Internship</b>	<b>1-3 Credits</b>

## English (EN)

### EN 0011 Texts and Contexts I: Writing as Craft and Inquiry 3 Credits

This course introduces students to the many kinds of reading and writing they will do across the curriculum and beyond. Students learn to draft, revise, and edit their own texts and respond effectively to the texts of their peers. The course offers practice with writing and reading assignments that call on different contexts (purposes, audiences, forms, or modes). Through the careful use of primary and secondary sources, students will foster their academic curiosities, practice reflection, and read deeply to join the conversation of ideas. Designated sections may satisfy the U.S. or world diversity requirement.

### EN 0012 Texts and Contexts II: Writing About Literature 3 Credits

**Prerequisite:** EN 0011.

This course builds on the reading, writing, and critical inquiry work of EN 0011, focusing on the development of increasingly sophisticated reading, writing, researching and inquiry skills through the exploration of literary texts and their contexts. Students will practice close reading techniques, be introduced to key terms and concepts in literary study, and practice writing in a variety of academic and creative genres. The course is intended to foster greater appreciation for the power of literature and literary study as a foundation to all the liberal arts.

### EN 0101 Introduction to Literary and Cultural Studies 3 Credits

**Attributes:** E\_AF English Literature After 1800, WDIV World Diversity

**Prerequisites:** EN 0011, EN 0012.

This course allows students to develop ways of reading, analyzing, and interacting with texts in English from around the globe. You will focus on such questions as: How are literary texts produced? How do local, national, and global cultures and events affect the way authors fashion their texts? Do literary works produced in different cultures at the same time "speak to each other" across time and space? The course will be run as a combination of lecture and small group discussion and will make use of web-based background materials to provide context and depth to the readings.

### EN 0102 Introduction to Contemporary World Literature 3 Credits

**Attributes:** E\_AF English Literature After 1800, WDIV World Diversity

**Prerequisites:** EN 0011, EN 0012.

Students will review recent fiction from around the world, including Africa, Latin America, the Caribbean, New Zealand, and the Middle East. Students learn strategies for comparing stories and narrative styles from different cultures, subject positions, and sociopolitical frameworks. Students develop a stronger awareness of different types of subjectivity in a global context. The course is suitable for non-majors seeking to fulfill the world diversity and English core requirements, and for English majors who have not yet taken more than one course beyond EN 0011 and EN 0012.

### EN 0103 Fairy Tales 3 Credits

**Attributes:** E\_AF English Literature After 1800, FREN French Course

Taught in English

**Prerequisites:** EN 0011, EN 0012.

A study of classic fairy tales in their oldest preserved versions by authors like Charles Perrault and the Brothers Grimm; in nineteenth- and twentieth-century literature influenced by the fairy tale tradition; in post-modern literary retellings; and in film and popular culture. The class leads to the production of a term paper involving research in primary sources and literary and folklore criticism.

### EN 0105 African Diaspora: Literature and Culture 3 Credits

**Attributes:** ASEN American Studies: Literature, ASGW American Studies: Gateway, BSAH Black Studies: Arts and Humanities, BSFC Black Studies Focus Course, E\_AF English Literature After 1800, LCEL LACS Minor: Elective, WDIV World Diversity

**Prerequisites:** EN 0011, EN 0012.

This course offers an interdisciplinary introduction to the African Diaspora, incorporating texts from Africa, the Caribbean, North America, and Europe. Beginning with colonization in Africa and representations of the Middle Passage, the course covers historical topics such as enslavement and the plantation system, abolition movements, migration within and out of the Caribbean, resistance movements, the Harlem Renaissance, and independence struggles. As we study the Atlantic world and globalization across several centuries, we will examine cultural syncretism, commodity culture rooted in the Triangle Trade, and creative endeavors in literature and the arts (painting and sculpture, film, music, dance, theatre).

### EN 0106 Masterpieces of Greek Literature in English Translation 3 Credits

**Attributes:** E\_BF English Literature Before 1800

**Prerequisites:** EN 0011, EN 0012.

This course surveys major works of ancient Greek literature, emphasizing the content of this literature as a key to understanding classical Greek civilization and as meaningful in a contemporary context.

### EN 0107 Masterpieces of Roman Literature in English Translation 3 Credits

**Attributes:** E\_BF English Literature Before 1800

**Prerequisites:** EN 0011, EN 0012.

This course surveys major works of Roman literature of the republic and early empire, emphasizing the content of this literature as a key to understanding Roman civilization, and as meaningful in a contemporary context.

### EN 0108 Myth in Classical Literature 3 Credits

**Attributes:** E\_BF English Literature Before 1800

**Prerequisites:** EN 0011, EN 0012.

This course introduces students to classical mythology through an examination of the diverse ways in which myth and legend are treated in the literatures of ancient Greece and Rome. Students read texts in English translation; knowledge of Greek or Latin is not required.

### EN 0109 Greek Tragedy in English Translation 3 Credits

**Attributes:** E\_BF English Literature Before 1800

**Prerequisites:** EN 0011, EN 0012.

An intensive study in translation of the surviving works of Aeschylus, Sophocles and Euripides. Knowledge of Greek is not required.

<b>EN 0110 Major Works of European Literature</b>	<b>3 Credits</b>	<b>EN 0114 Caribbean Literature: History, Culture, and Identity</b>	<b>3 Credits</b>
<b>Attributes:</b> E_BF English Literature Before 1800		<b>Attributes:</b> ASEN American Studies: Literature, ASGW American Studies: Gateway, BSFC Black Studies Focus Course, EDCG Educational Studies Cognate, EDDV Educational Studies Diversity, E_AF English Literature After 1800, LCEL LACS Minor: Elective, WDIV World Diversity	
<b>Prerequisites:</b> EN 0011, EN 0012.		<b>Prerequisites:</b> EN 0011, EN 0012.	
This course surveys major works of world literature from ancient times to the present. Because the works are chosen from a broad span of cultures and periods, the course focuses on the function of literature: What kinds of stories do people tell about their societies? What are their major concerns, and how are these represented in fiction? How can we compare stories from one culture or period with those from another? The course discusses genre and style as well as content. Texts may include the Epic of Gilgamesh, as well as works by Boccaccio, Marguerite de Navarre, Madame de Lafayette, and Gabriel García Márquez.		This course serves as an introduction to the field of Caribbean literatures in English and English translation, with a focus on the French-speaking Caribbean. We survey a wide range of theoretical and fictional texts (poetry, short stories, novels, theatre), and introduce students to the debate surrounding the formation of Antillean cultural identity/identities. This course examines "Caribbean literatures" with respect to their language of origin, colonization, slavery, racial experience, landscape, migration, and diaspora, specifically in Haiti, Martinique, Guadeloupe, Barbados, Trinidad, Cuba, and the Netherlands Antilles/Surinam.	
<b>EN 0111 International Short Fiction</b>	<b>3 Credits</b>	<b>EN 0115 Dante</b>	<b>3 Credits</b>
<b>Attributes:</b> E_AF English Literature After 1800		<b>Attributes:</b> CAOT Catholic Studies: Non-Religious Studies, E_BF English Literature Before 1800, ISIF Italian Studies: Italy-Focused, ISIT Italian Studies: Italian	
<b>Prerequisites:</b> EN 0011, EN 0012.		<b>Prerequisites:</b> EN 0011, EN 0012.	
This course examines works of short fiction from around the world written during the twentieth and twenty-first centuries. The degree to which - and the specific manners in which - these works contribute to a characteristically modern sense of human existence and the function of narrative art forms the basis for reading selections. Through textual analysis, students compare and contrast various versions of the modern experience as produced by authors such as Gogol, Melville, Mansfield, Joyce, Lawrence, Cather, Tolstoy, Chekhov, Kafka, Hemingway, Lessing, Borges, Barth, Böll, Mishima, Achebe, Erdrich, and Atwood.		This course examines the works of Dante Alighieri, including the <i>Vita nuova</i> , in addition to the "Inferno," "Purgatorio," and "Paradiso" from the Divine Comedy. Students are introduced to the political, linguistic, theological, and poetic ideas that make Dante's works not only significant in the medieval context, but also continue to challenge and inform modern debates.	
<b>EN 0112 19th-Century Russian Novel and World Literature</b>	<b>3 Credits</b>	<b>EN 0116 Rome in the Cultural Imagination</b>	<b>3 Credits</b>
<b>Attributes:</b> E_AF English Literature After 1800		<b>Attributes:</b> E_BF English Literature Before 1800, ISIF Italian Studies: Italy-Focused	
<b>Prerequisites:</b> EN 0011, EN 0012.		<b>Prerequisites:</b> EN 0011, EN 0012.	
This comparative study of major Russian authors and their counterparts in France, Germany, England, and the U.S. begins with short fiction and moves to novels such as Père Goriot, Crime and Punishment, A Hero of Our Time, and Madame Bovary. Russian writers include Pushkin, Lermontov, Dostoevsky, Turgenev, and Tolstoy. Topics include the role of marriage and attitudes towards the family, urban versus rural experience - especially the role of the city, the fantastic in literature, narrative technique, and the development of 19th-century fiction.		The city of Rome has been a source of wonder and amazement throughout recorded history. This course examines the foundation myths of the Eternal City in contrast to the historical accounts, discusses early accounts of the life of the city, evaluates the reasons for its decline and fall, considers the riches of Renaissance and Baroque periods, analyzes poetry by the Roman people, and examines Rome's centrality for the world of art. This course, which is conducted in English, also focuses on the political importance of the city from its inception through the Risorgimento (Italian Unification), to Fascism and World War II, to present day.	
<b>EN 0113 Literature of the Holocaust</b>	<b>3 Credits</b>	<b>EN 0117 Introduction to Francophone Sub-Saharan African Culture</b>	<b>3 Credits</b>
<b>Attributes:</b> E_AF English Literature After 1800, GMEL German Major or Minor Course, GMEN German Course Taught in English, HACA Humanitarian Action Minor Context Course, JST Judaic Studies Minor		<b>Attributes:</b> E_AF English Literature After 1800, WDIV World Diversity	
<b>Prerequisites:</b> EN 0011, EN 0012.		<b>Prerequisites:</b> EN 0011, EN 0012.	
After an introduction to the historical, political, and social background of the Holocaust, this course uses poetry, drama, fiction, non-fiction, art, and music to explore the genocide of Jews and other groups by Nazi Germany (1933-1945). The course seeks to discover what transpired during the Holocaust and what it means to our understanding of human nature and of our civilization. Readings and films include Appelfeld's <i>Badenheim 1939</i> , Spiegelman's <i>Maus I &amp; II</i> , Frankl's <i>Man's Search for Meaning</i> , Wiesenthal's <i>The Sunflower</i> , Spielberg's "Schindler's List," Wiltz's "The Good German," and more.		This course taught in English explores the issues that confront Sub-Saharan Africa in its transformation from tradition to colonization, and finally to independence through a large variety of literary texts (traditional oral literature and modern written literature), critical theory, films, music, and magazine and newspaper articles. Texts and films will be discussed from a multi-disciplinary perspective to illustrate their cultural, sociological, political, and religious import. Africa's geography and major historical markers will be woven into the readings and discussions.	

**EN 0118 Modern China through Fiction and Film****3 Credits****Attributes:** E\_AF English Literature After 1800, WDIV World Diversity**Prerequisites:** EN 0011, EN 0012.

A study of various cultural aspects of modern China in the 20th century through reading translated fiction as well as films. Students explore topics such as modernity, nationalism, individualism, gender, and cultural identity in the modern cultural-historical context. Also will be discussed are issues particular to fiction and film as representational modes: How do fiction and film narrate history and the complex Chinese experience? How have they both been shaped by and contributed to the socio-cultural transformations? And how do they represent the increasingly diversified cultural and social landscape of contemporary China?

**EN 0119 The City and Modern China****3 Credits****Attributes:** E\_AF English Literature After 1800, WDIV World Diversity**Prerequisites:** EN 0011, EN 0012.

The course studies the literary and visual representations of the city in modern China through a sampling of stories, novels, photos, films, and critical essays. Students discuss how literature and visual art bear witness to the changing faces of the metropolis and urban life during the time of Chinese modernization and globalization and how the city expresses modern ethos, desires and paradoxes in literary works and films. All texts are in English. Films have subtitles.

**EN 0120 American Women Playwrights****3 Credits****Attributes:** ASGW American Studies: Gateway, ENAM American Literature, E\_AF English Literature After 1800, UDIV U.S. Diversity**Prerequisites:** EN 0011, EN 0012.

This course traces the evolution of plays by women from the Revolutionary War to plays reflecting the 21st-century concerns of African American, Asian, American, and Latina playwrights. Plays are discussed in light of the social, political, and economic climates that produced them. Special emphasis is given to questions of sex, gender, race, ethnicity, and class, as we explore how American women, despite considerable obstacles, have developed their own theatrical voices. Our study is further informed by the work of feminist performance theorists.

**EN 0121 American Literature and the Environment****3 Credits****Attributes:** ASEN American Studies: Literature, ASGW American Studies: Gateway, ENAM American Literature, EVHU Environmental Studies: Humanities, EVME Environmental Studies Major Elective, EVPE Environmental Studies Elective, E\_AF English Literature After 1800**Prerequisites:** EN 0011, EN 0012.

This course aims to explore the ways in which ideas about the physical, "natural" environment have been shaped in American literature. The course will survey a variety of important texts in this tradition and introduce students to the scholarly perspective known as "Ecocriticism." Texts may include those by Austin, Cather, Leopold, Muir, Silko, Thoreau.

**EN 0122 The Frontier in American Literature****3 Credits****Attributes:** ASEN American Studies: Literature, ASGW American Studies: Gateway, ENAM American Literature, E\_AF English Literature After 1800**Prerequisites:** EN 0011, EN 0012.

For the last five centuries, the frontier – understood as the place where humanity comes into contact with its apparent absence in the shape of alien beings and landscapes – has been the subject of some of the most lasting and powerful American stories. In this course, students concentrate on some of the major representations of the frontier produced between the 1820s and the present to learn how to recognize and talk about the position that the American westward has occupied in our culture. Authors include Cooper, Twain, Cather, and McCarthy; filmmakers include Ford, Peckinpah, and Eastwood.

**EN 0123 Ethnic American Literature****3 Credits****Attributes:** ASEN American Studies: Literature, ASGW American Studies: Gateway, ENAM American Literature, E\_AF English Literature After 1800, LCEL LACS Minor: Elective**Prerequisites:** EN 0011, EN 0012.

This course focuses on stories from writers whose countries came in contact with American colonization. The course examines postcolonial themes in a historical context, and asks what it means to be a writer whose identity is formed by the diasporic flight of one's people. We begin with theorizing postcoloniality and move to a study of 20th century writing by Puerto Rican, Filipino, Vietnamese, and other ethnic American writers. Topics include the influences of English on vernacular literatures and the relationship of the postcolonial to contemporary politics and art.

**EN 0124 American Literature: Myths and Legends****3 Credits****Attributes:** ASEN American Studies: Literature, ASGW American Studies: Gateway, ENAM American Literature, E\_AF English Literature After 1800**Prerequisites:** EN 0011, EN 0012.

Our national literary tradition has been defined by the stories we tell about ourselves and our conversations about important social and political issues, including race, reform, democracy, suffrage, Native American removal, class, technology, and Manifest Destiny. This course explores how literature reflects, constructs, and questions the dominant image and understanding of the American identity from the Puritans through the nineteenth century. The course leads to developing a term paper drawing on research and using literary criticism. Writers include Bradstreet, Franklin, Wheatley, Irving, Douglass, Poe, Whitman, Dickinson, James, and Twain.

**EN 0125 American Drama****3 Credits****Attributes:** ASEN American Studies: Literature, ASGW American Studies: Gateway, ENAM American Literature, E\_AF English Literature After 1800, UDIV U.S. Diversity**Prerequisites:** EN 0011, EN 0012.

This course examines the development of American theatre from the 18th through the 21st centuries. It includes a study and analysis of the special problems affecting the development and changes in American society as seen through American playwriting and theatre production. Students read over twenty plays that grapple with issues of race, ethnicity, gender, class, and what it means to be an American. The course includes theatre trips.

**EN 0126 American Social Protest Literature****3 Credits****Attributes:** ASEN American Studies: Literature, ASGW American Studies: Gateway, EDDV Educational Studies Diversity, E\_AF English Literature After 1800**Prerequisites:** EN 0011, EN 0012.

This course explores the long tradition of non-violent social protest in American literature. We examine how many writers have challenged their contemporaries to become aware of important issues - race, women's rights, Native American activism, the environment, war, and poverty. Students keep a journal in which they reflect on the literature and develop strategies for changing themselves and the world around them. A final project asks students to consider ways to raise awareness about a social issue at the University or in the larger community. Selected writers include Stowe, Davis, Thoreau, Crane, Douglass, Steinbeck, King, Wright, and Ginsberg.

<b>EN 0127 Romantic Love in Greek and Roman Literature</b>	<b>3 Credits</b>	<b>EN 0131 Contemporary Women Writers of Color</b>	<b>3 Credits</b>
<b>Attributes:</b> E_BF English Literature Before 1800		<b>Attributes:</b> ASEN American Studies: Literature, ASGW American Studies: Gateway, BSAH Black Studies: Arts and Humanities, BSCC Black Studies Component Course, ENAM American Literature, E_AF English Literature After 1800, PJST Peace and Justice Studies, UDIV U.S. Diversity, WSGF Women, Gender, and Sexuality Studies: Gender Focused	
<b>Prerequisites:</b> EN 0011, EN 0012.		<b>Prerequisites:</b> EN 0011, EN 0012.	
The course of true love never did run smooth. From Homer's Penelope to Ovid's Remedies of Love we will examine the permutations of romantic desire and its frustrations in the literature of Greece and Rome. Readings also include selections from Sappho's poetry, Sophocles' Women of Trachis, Euripides' Phaedra and Medea, comedies by Menander and Terence, Catullus' poems to Lesbia, Vergil's tale of Dido and Aeneas, selections from the elegies of Tibullus, Sulpicia, Propertius and Ovid, and briefer excerpts from other authors. All readings are in English translation.		This course focuses on works by Latinas, Native, Asian American, and African American women writers, as well as moving beyond the borders of the U.S. to include writers from the Americas, emphasizing the decades from the 1970s to the present. We consider the intersectionality of race, ethnicity, gender, sexuality, and socio-economic class, as these contribute to concepts of identity - for both the individual and the community. Authors may include Gloria Anzaldúa, Leslie Marmon Silko, Louise Erdrich, Lan Cao, Nora Okja Keller, Sky Lee, Ana Castillo, Carla Trujillo, Achy Obejas, Loida Maritza Pérez, Danzy Senna, Dorothy West, and Chitra Diakaruni.	
<b>EN 0128 Cities in Literature</b>	<b>3 Credits</b>	<b>EN 0132 20th Century Russian Fiction</b>	<b>3 Credits</b>
<b>Attributes:</b> E_AF English Literature After 1800		<b>Attributes:</b> E_AF English Literature After 1800	
<b>Prerequisites:</b> EN 0011, EN 0012.		<b>Prerequisites:</b> EN 0011, EN 0012.	
This course offers a comparative, cross-cultural approach to literature about the city, focusing primarily on fiction from the nineteenth century to the present. Beginning with a novel by Balzac, stories by Gogol and Dostoevsky, and poetry by Baudelaire and Whitman, we discuss topics including detective narratives, the figure of the flâneur, the country/city dichotomy, the crowd, the metropolis and mental life, and the rise of an urban middle class. In texts by authors such as James Joyce, Edith Wharton, Naguib Mahfouz, Monica Ali, Edward P. Jones, and Paulette Poujol-Oriol, issues surrounding gender, sexuality, race, ethnicity, and citizenship emerge as central topics.		In this comparative study, students read works by Russian and Soviet authors in tandem with texts by novelists from Eastern Europe, Asia, and the Americas. From the Silver Age, the course moves to post-Revolutionary fiction and versions of dystopia, considers exile, dislocation, relocation, and dual identity, then examines the effects of the Stalin years, and concludes with contemporary fiction of the post-Soviet era. The course sets the literature within its historical, political, and cultural contexts, incorporating material from the arts, as well.	
<b>EN 0129 American Short Story</b>	<b>3 Credits</b>	<b>EN 0133 The African American Literary Tradition</b>	<b>3 Credits</b>
<b>Attributes:</b> ASGW American Studies: Gateway, ENAM American Literature, E_AF English Literature After 1800		<b>Attributes:</b> ASGW American Studies: Gateway, BSFC Black Studies Focus Course, ENAM American Literature, UDIV U.S. Diversity	
<b>Prerequisites:</b> EN 0011, EN 0012.		<b>Prerequisites:</b> EN 0011, EN 0012.	
The American Short Story covers the rise of this genre form from the early Nineteenth Century beginning with Poe and continues through the realistic/naturalistic periods up through modernist and post-modernist movement through the present. Some of the authors studied include Poe, Hawthorne, Melville, Crane, Twain, Cather, McCullers, Welty, O'Connor, Hemingway, Faulkner, Roth, Updike, O'Brien, Lahiri.		This survey course examines the development of African American literature from the late eighteenth century to the present, with a focus on issues of literacy, authority, and identity. The course traces this tradition's history from Phillis Wheatley's role in defining American poetry and Olaudah Equiano's Interesting Narrative, to the narratives of enslavement by authors such as Harriet Jacobs and Frederick Douglass, to the New Negro Renaissance, the Civil Rights Movement, and contemporary African American fiction and poetry. Formerly EN 0253.	
<b>EN 0130 Literature by Women: Vision and Revision</b>	<b>3 Credits</b>	<b>EN 0135 Graphic Novels as Thrillers and Chillers</b>	<b>3 Credits</b>
<b>Attributes:</b> ENAM American Literature, ENBR British Literature, E_AF English Literature After 1800, WSGF Women, Gender, and Sexuality Studies: Gender Focused		<b>Attributes:</b> ASEN American Studies: Literature, E_AF English Literature After 1800, UDIV U.S. Diversity	
<b>Prerequisites:</b> EN 0011, EN 0012.		<b>Prerequisites:</b> EN 0011, EN 0012.	
This study of transatlantic, post-1800 literature by women will adopt Virginia Woolf's notion that "books continue each other." The course will be anchored in such "touchstone" texts as Jane Austen's Pride and Prejudice, Charlotte Brontë's Jane Eyre, and Edith Wharton's The House of Mirth. Each touchstone work will be grouped with a number of subsequent literary texts responding to and/or revising the earlier work. Readings will reach across centuries and continents. Topics include the social constructions of race, sexuality, gender, class, and beauty, intertextuality, influence, and canon formation.		This course will introduce students to the idea of graphic novels as literature that deals with serious subjects – ranging from social, political, cultural, to race-based and sexually sensitive issues – in ways that are hyperbolically dramatic and/or humorous. It has a strong digital component and students will be asked to work with and use a range of multimodal tools such as blogs, Wiki, Twitter, Animoto, and visual story-telling. Students will be trained to grasp the fact that the graphic novels often reflect historical events, prominent ideological and socio-cultural attitudes of the time, and span the spectrum from propelling propaganda to mounting a critique. The graphic novel, also called a comic, has always enjoyed a loyal fan base, mostly amongst the younger generations.	

<b>EN 0136 Book Histories and Futures: Literature in Times of Media Change</b>	<b>3 Credits</b>	<b>EN 0145 King Arthur</b>	<b>3 Credits</b>
<b>Attributes:</b> E_AF English Literature After 1800		<b>Attributes:</b> E_BF English Literature Before 1800	
<b>Prerequisites:</b> EN 0011, EN 0012.		<b>Prerequisites:</b> EN 0011, EN 0012.	
The book is a long-established symbol of knowledge and a vessel of literary culture, but the digital revolution has complicated its meaning. This course explores the book's current cultural status and its longer history, as both an object and expressive form. Students will chart the book's evolution through both historical and theoretical accounts, and literary works that embody and thematically explore these changes. Students will primarily use the techniques of traditional literary analysis, but will also incorporate methods from related disciplines such as visual and new-media studies, narratology, digital humanities, and book studies to address the course's formally diverse texts.		A survey of the literature of the legend of Arthur, from ancient Celtic fragments and references to medieval chivalric romances, and on to modern reinterpretations in poems, novels, and film. Particular focus on the romances of Marie de France, Chrétien de Troyes, Sir Thomas Malory, and the anonymous author of Sir Gawain and the Green Knight. Attention to such themes as: the construction of nationality; the tension between the individual and culture; the stylized representation of gender and class; the interplay of reality and fantasy; theories of authorship and audience; connections to history-writing and to other literary genres.	
<b>EN 0141 Imagining Shakespeare</b>	<b>3 Credits</b>	<b>EN 0161 Irish Literature</b>	<b>3 Credits</b>
<b>Attributes:</b> ENBR British Literature, E_BF English Literature Before 1800		<b>Attributes:</b> CAOT Catholic Studies: Non-Religious Studies, ENBR British Literature, E_AF English Literature After 1800	
<b>Prerequisites:</b> EN 0011, EN 0012.		<b>Prerequisites:</b> EN 0011, EN 0012.	
Shakespeare is considered the greatest writer in the English language. This course will investigate how his genius is expressed in comedy, history, tragedy, and romance. We will study how each kind of play influences the others in every part of Shakespeare's career. Plays include The Taming of the Shrew, Richard III, A Midsummer Night's Dream, Henry IV, Twelfth Night, Hamlet, Othello, King Lear, The Winter's Tale, and The Tempest. We will take a multimedia approach by analyzing performances as well as text. The history of Shakespeare's era and of his critics will be studied as well.		The course studies the deep connections between the literature and history of Ireland from 1800 to the present. Building on EN 0011 and EN 0012, it further develops the ability to read literature closely (to analyze and interpret the figurative language and stylistic features of fiction, drama, and poetry) and to write convincingly about the meanings and ideas that such close reading yields. It also adds to this skill by teaching students to recognize and articulate the inherent links between literature, history, and culture - links which are particularly evident in modern Irish writing, and which are revealed through close reading.	
<b>EN 0142 Myths and Legends of Ireland and Britain</b>	<b>3 Credits</b>	<b>EN 0162 Irish Women Writers</b>	<b>3 Credits</b>
<b>Attributes:</b> ENBR British Literature, E_BF English Literature Before 1800		<b>Attributes:</b> CAOT Catholic Studies: Non-Religious Studies, ENBR British Literature, E_AF English Literature After 1800, WSGF Women, Gender, and Sexuality Studies: Gender Focused	
<b>Prerequisites:</b> EN 0011, EN 0012.		<b>Prerequisites:</b> EN 0011, EN 0012.	
This course studies the literature of early medieval cultures of Ireland and Great Britain, with special attention to Celtic culture. The course is divided into four parts, focusing on the Irish Táin Bó Cuailnge, the Welsh Mabinogion, the Latin Christian legends of Celtic saints, and the Old English epic Beowulf. Critical issues for discussion include: paganism and Christianity; conceptions of law, kinship, and nationhood; warrior culture and the idea of the hero; the status of art and poetry; orality and literacy; the natural and the supernatural; the construction of gender.		A study of women writers both Anglo and Gaelic, from 19th-century fiction to contemporary poetry. The course focuses on the cross-cultural differences between these two groups, one privileged, the other marginalized, who perhaps share only a common language. Besides women's issues - education, emigration, marriage, motherhood, and equality - the themes include the Big House, colonization, the Literary Revival, folklore, the storyteller, and the roles of religion and politics in the society. Among the authors to be explored are Maria Edgeworth, Somerville and Ross, Elizabeth Bowen, Lady Gregory, Marina Carr, Peig Sayers, Edna O'Brien, Eilis Ni Dhuibhne, Eavan Boland, and Nula Ni Dhomhnaill.	
<b>EN 0143 The Greenworld: English Literature and the Environment</b>	<b>3 Credits</b>	<b>EN 0163 The Literature of Illness and Healing: Wounded Storytellers and Dedicated Healers</b>	<b>3 Credits</b>
<b>Attributes:</b> ENBR British Literature, EVHU Environmental Studies: Humanities, EVME Environmental Studies Major Elective, EVPE Environmental Studies Elective, E_BF English Literature Before 1800		<b>Attributes:</b> HSTE Health Studies: Traditions, Delivery, and Ethics, UDIV U.S. Diversity	
<b>Prerequisites:</b> EN 0011, EN 0012.		<b>Prerequisites:</b> EN 0011, EN 0012.	
A survey of prose, poetry, and drama, the focus of this course is on the "Greenworld" in early modern English literature. The "Greenworld" encompasses all visions of the natural world - forests, gardens, oceans, caves, parks, animals, etc. - as represented in many different aesthetic forms. Students will be introduced to a number of environmental studies topics, including land dispossession, natural disasters, New World plantations, land stewardship, and animal rights, as these topics appear in literature. Course readings range broadly from Virgil, Montaigne, and Shakespeare to James Cameron's "Avatar," and from the philosophical transactions of the Royal Society to transcriptions of witchcraft trials.		What is it like to suffer a stroke, contend with cancer, deal with depression or live with a crippling disease? While biomedicine may clinically treat such conditions, it is to literature that we turn to gain a humanistic understanding of the emotional and spiritual impact of illness on wounded storytellers and on the dedicated doctors and nurses who care for them. Readings in various literary genres- memoir, essay, poetry, fiction, drama- and films with medical themes will also explore issues of diversity, noting how gender, race, ethnicity, religion and sexual orientation affect the illness experience.	

<b>EN 0170 Writing the Self: Autobiography</b>	<b>3 Credits</b>	<b>EN 0203 English Epic</b>	<b>3 Credits</b>
<b>Attributes:</b> ASGW American Studies: Gateway, ENAM American Literature, E_AF English Literature After 1800, UDIV U.S. Diversity		<b>Attributes:</b> ENBR British Literature, E_BF English Literature Before 1800	
<b>Prerequisites:</b> EN 0011, EN 0012.		<b>Prerequisite:</b> One 100-level English literature course.	
Autobiography holds a special place in its presentation of the writer's self, enlisting the reader's belief in the author's "confession" while crossing the line between fictional work and truth. This course examines autobiography and related genres, including memoir, diaries, and personal essays and considers their purpose: what do these authors reveal about themselves, and why? How much is convention, how much is truth? What impact do race, gender, class, nationhood, and ethnicity have on the construction of identity? Writers may include Franklin, Shepard, Douglass, Barnum, Johnson, Winnemucca, Zitkala-Sa, Malcolm X, Wright, Baldwin, Stein, Walker, and Cisneros.		Study of large-scale, verse narratives created or received as English national epics, or composed in the epic tradition. Texts will represent the major time periods of earlier English literary history: Beowulf from the Old English period; Sir Gawain and the Green Knight or Morte d'Arthur from the Middle English period; excerpts from Spenser's Faerie Queene from the Elizabethan period; Milton's Paradise Lost from the seventeenth century; Pope's Rape of the Lock from the eighteenth century. Critical attention will be paid throughout to changing and competing conceptions of England, nation, and epic.	
<b>EN 0171 Literature and the Visual Arts</b>	<b>3 Credits</b>	<b>EN 0204 Literary Fairy Tale Tradition</b>	<b>3 Credits</b>
<b>Attributes:</b> ENAM American Literature, ENBR British Literature, E_AF English Literature After 1800, WSGF Women, Gender, and Sexuality Studies: Gender Focused		<b>Attributes:</b> E_AF English Literature After 1800	
<b>Prerequisites:</b> EN 0011, EN 0012.		<b>Prerequisite:</b> One 100-level English literature course.	
This interdisciplinary course will examine the dynamic relationship between literature and the visual arts. Special attention will be paid to literature written in English during the 19th and 20th centuries - a time when writers and cultural critics were increasingly interested in the visual arts in general (painting, sculpture, photography, film, etc.) and the impact of the new mass media in particular. These artists forged a unique and significant relationship between their bodies of work and the visual arts; several of the writers studied worked in the tradition known as "ekphrasis" (e.g., poems "speaking" to a work of art). Writers of focus might include Blake, Poe, the Brownings, the Rossettis, Siddall, Wilde, Wharton, and Larsen.		This course is a survey of the fairy tale as a literary genre which traces the development of the literary tradition from sixteenth-century Italy to the Brothers Grimm and nineteenth-centuries authors including Hans Christian Andersen and Oscar Wilde, and studies Charlotte Brontë's Jane Eyre to note connections to the genre of the novel. Also follows the persistence of fairy tales in modern, post-modern, and contemporary fiction, and in popular film. Requirements include a research paper on a fairy tale or author of the student's choosing. Not to be taken by students who have taken EN 0103.	
<b>EN 0172 Literacy and Language</b>	<b>3 Credits</b>	<b>EN 0207 Contemporary American Novel</b>	<b>3 Credits</b>
<b>Attributes:</b> EDCG Educational Studies Cognate, EDDV Educational Studies Diversity, E_AF English Literature After 1800, UDIV U.S. Diversity		<b>Attributes:</b> ASUP American Studies Upper Level, ENAM American Literature, E_AF English Literature After 1800	
<b>Prerequisites:</b> EN 0011, EN 0012.		<b>Prerequisite:</b> One 100-level English literature course.	
This course examines the concept of literacy as it is represented in fiction and non-fiction texts. Reading widely – in memoirs, essays, fiction, creative non-fiction, and drama – we will consider individual experiences with literacy, language, and schooling, as well as the relationship between literacy and power. The course includes a service learning experience that connects issues from the course to the real context of a local elementary school.		The Contemporary American Novel covers the past 30 years of this genre form. The course introduces the student to on-going developments in the realistic novel as well as post-modernist forms such as magical realism and metafiction, as well as the novel of social criticism. Some of the writers studied include Philip Roth, Marilynne Robinson, Elizabeth Strout, Ann Patchett, Cormac McCarthy, Toni Morrison, Edward P. Jones, Jeffrey Eugenides, Charles Frazier, Jonathan Lethem, Ha Jin.	
<b>EN 0202 American Poetry</b>	<b>3 Credits</b>	<b>EN 0211 Age of Chaucer</b>	<b>3 Credits</b>
<b>Attributes:</b> ASEN American Studies: Literature, ASUP American Studies Upper Level, ENAM American Literature, E_AF English Literature After 1800		<b>Attributes:</b> CAOT Catholic Studies: Non-Religious Studies, E_BF English Literature Before 1800	
<b>Prerequisite:</b> One 100-level English literature course.		<b>Prerequisite:</b> One 100-level English literature course.	
This course surveys a range of significant works of American poetry. It is an introduction to various movements (e.g., transcendentalism or modernism), various schools (e.g., New Formalism), and the turn to a multi-lingual and multi-vocal poetry found in the Harlem Renaissance and Spoken Word movements. The course pays particular attention to form, while grounding understanding of form within a socio-historical context. Readings may range from Walt Whitman, Emily Dickinson, William Carlos Williams, Elizabeth Bishop, Wallace Stevens, Gwendolyn Brooks, Robert Frost, Langston Hughes, Pedro Pietri, Joy Harjo, and others.		A survey of the literature of late-medieval England, focusing on its richest period, the second half of the fourteenth century - the age of Chaucer and his contemporaries. Students will gain access to the Middle English language, and study examples of the main genres of medieval literature, including religious and secular lyric, mystical writing, courtly romance, religious drama, chronicle, and comic narrative. Literature will be considered within its social and historical contexts, with special attention to representations of social order, and challenges to that order, notably the Great Rebellion of 1381.	
<b>EN 0213 Shakespeare I</b>	<b>3 Credits</b>	<b>EN 0213 Shakespeare I</b>	<b>3 Credits</b>
<b>Attributes:</b> ENBR British Literature, E_BF English Literature Before 1800		<b>Attributes:</b> ENBR British Literature, E_BF English Literature Before 1800	
<b>Prerequisite:</b> One 100-level English literature course.		<b>Prerequisite:</b> One 100-level English literature course.	
In the first half of Shakespeare's career, comedy, tragedy, and history plays express both the spirit of the Elizabethan age and their own identities as different genres that reference each other. A Midsummer Night's Dream, Romeo and Juliet, Henry IV, and Much Ado About Nothing are among a selection of ten plays that explore dimensions of love, religion, and politics. We learn how critics have approached Shakespeare in many different ways, and how to evaluate and respond to critical opinion. Multimedia presentations show how performance and text combined enrich our understanding of this great writer.			

**EN 0214 Shakespeare II****3 Credits****Attributes:** ENBR British Literature, E\_BF English Literature Before 1800**Prerequisite:** One 100-level English literature course.

The second half of Shakespeare's career begins with bright Elizabethan comedies (*As You Like It*, *Twelfth Night*) and transitions to the darker Jacobean tragedies (*Hamlet*, *Othello*, *King Lear*). These troubling modern visions lead through problem plays to the antiheroic late tragedies and the romances (*The Tempest*), exploring issues of racism, colonialism, and social justice. We learn how critics have approached Shakespeare in many different ways, and how to evaluate and respond to critical opinion. Multimedia presentations show how performance and text combined enrich our understanding of this great writer.

**EN 0215 Introduction to 18th Century British Literature****3 Credits****Attributes:** ENBR British Literature, E\_BF English Literature Before 1800**Prerequisite:** One 100-level English literature course.

This selective survey of 18th-century English literature includes authors such as Pope, Swift, Gray, Jonson, Boswell, Goldsmith, Burns, and Montague.

**EN 0216 Victorian Poetry and Poetics****3 Credits****Attributes:** ENBR British Literature, E\_AF English Literature After 1800, WSGF Women, Gender, and Sexuality Studies: Gender Focused**Prerequisite:** One 100-level English literature course.

This course examines the poetry and theories of poetry posited by Victorian men and women who explored concepts of identity vis-à-vis Victorian notions of culture, religion, science, politics, and sexuality. Beginning with Arnold and ending with Wilde, the course covers both poetry and literary movements such as Pre-Raphaelitism, Decadence, aestheticism, and symbolism.

**EN 0217 Romantics, Victorians, Moderns: British Literature****1800-1950****3 Credits****Attributes:** ENBR British Literature, E\_AF English Literature After 1800**Prerequisite:** One 100-level English literature course.

A survey of three distinct but overlapping periods in British literary history - Romantic, Victorian, and Modern. As much a study of ideas as of literary works, the course examines the crucial ideological, philosophical, and cultural transformations that shape each of these important literary eras.

**EN 0218 20th Century British Literature****3 Credits****Attributes:** ENBR British Literature, E\_AF English Literature After 1800**Prerequisite:** One 100-level English literature course.

A survey of major developments in twentieth-century British, Irish, and Anglophone Post-colonial literature. 20th-Century England is shaped by rapid technological changes, the breakdown of Victorian mores and orthodox beliefs, the devastation of the Great War, the advent of psychoanalysis, and the height and decline of the British empire. Students learn to recognize and evaluate how these events relate to the new, experimental styles of Modern, Postmodern, and Postcolonial writing. Authors studied range from early figures such as Joseph Conrad, Virginia Woolf, W.B. Yeats, and James Joyce to contemporary stars such as Kazuo Ishiguro, J.M. Coetzee, and Zadie Smith.

**EN 0231 Early American Literature****3 Credits****Attributes:** ASEN American Studies: Literature, ENAM American Literature, E\_BF English Literature Before 1800**Prerequisite:** One 100-level English literature course.

A study of the origins of literature of the Americas with an emphasis on the Puritans and early Republic through 1830. We begin with the oral history of Native Americans and the literature of colonization and exploration. We also explore the rich tradition of spiritual autobiography, poetry, narrative history, and sermons among the Puritans. Turning to the eighteenth-century, we examine captivity narratives and democratic writing of the Revolutionary period, with an emphasis on the impact of the slave trade, colonization, Independence, and contemporary issues of the post-colonial period.

**EN 0233 American Literature: 20th Century to the Present****3 Credits****Attributes:** ASUP American Studies Upper Level, ENAM American Literature, E\_AF English Literature After 1800**Prerequisite:** One 100-level English literature course.

A survey of 20th Century American Literature to the present within the socio-historical context of diverse and overlapping literary and cultural traditions of the United States, such as (though not limited to) Native American, African American, Anglo American, and Asian American. Writers might include Eliot, Hemingway, Faulkner, Yezierska, Hughes, Hurston, McNickle, Bellow, Okada, Kerouac, Rich, Plath, Welch, Gaines, Jen.

**EN 0234 American Women Writers of the 19th Century****3 Credits****Attributes:** ASUP American Studies Upper Level, ENAM American Literature, E\_AF English Literature After 1800, WSGF Women, Gender, and Sexuality Studies: Gender Focused**Prerequisite:** One 100-level English literature course.

A study of American female writers who have made an impact on the world through their fiction, journalism, or poetry. The course is organized thematically around a set of topics related to nineteenth-century women's lives and selves: gender and domesticity, suffrage, slavery, labor, frontier life, sexuality, and social activism. African-American and Native-American women's writings and those of other ethnicities also form an integral part of the tradition. Writers may include Alcott, Beecher, Cary, Child, Chopin, Dickinson, Fern, Freeman, Gilman, Jacobs, Kirkland, Harper, Keckley, Jewett, Piatt, Ruiz de Burton, Sin Far, Spofford, Stowe, and Wharton.

**EN 0235 Edith Wharton and Her Circle****3 Credits****Attributes:** ASEN American Studies: Literature, ENAM American Literature, E\_AF English Literature After 1800, WSGF Women, Gender, and Sexuality Studies: Gender Focused**Prerequisite:** One 100-level English literature course.

A study of fiction by American realist Edith Wharton in the context of her peers, including writers she read and those she inspired. While Wharton serves as a focal point, the course also examines the works and ideas of such influential figures as Balzac, Flaubert, Maupassant, Chekhov, James, Crane, Dreiser, and Freeman, as well as adaptations of Whartonian themes by such novelists as Larsen, Bushnell, von Ziegesar and Tóibín. Topics include the social construction of "whiteness," the art of social climbing, turn-of-the-century gender crises involving masculinity and the New Woman, and the social and cultural transformations wrought by the modern city.

**EN 0262 The Harlem Renaissance****3 Credits**

**Attributes:** ASEN American Studies: Literature, ASUP American Studies Upper Level, BSAH Black Studies: Arts and Humanities, BSFC Black Studies Focus Course, E\_AF English Literature After 1800, UDIV U.S. Diversity

**Prerequisite:** One 100-level English literature course.

This course examines African American literature and culture from Washington's Up from Slavery and Du Bois's The Souls of Black Folk, through the 1920s and the Great Depression, to the eve of U.S. participation in World War II. Grounded in U.S history, the course explores fiction, poetry, and other forms of cultural production such as painting, sculpture, film, and music. It examines the aftermath of Reconstruction, the effects of the Great Migration, and the responses to Du Bois's call for a "Talented Tenth." The Harlem Renaissance provides the major focus, as do the debates about whether there was such a movement at all. The course looks towards the development of a contemporary Black tradition in literature and culture.

**EN 0263 African American Women Writers****3 Credits**

**Attributes:** ASEN American Studies: Literature, ASUP American Studies Upper Level, BSAH Black Studies: Arts and Humanities, BSFC Black Studies Focus Course, ENAM American Literature, E\_AF English Literature After 1800, UDIV U.S. Diversity, WSGF Women, Gender, and Sexuality Studies: Gender Focused

**Prerequisite:** One 100-level English literature course.

This course offers a survey of writing by African American women from the mid-nineteenth century to the present, focusing primarily on autobiography and fiction. Beginning with Jacobs's Incidents in the Life of a Slave Girl and examining late-nineteenth-century fiction by authors such as Harper, the course examines issues of redefining womanhood, participating in racial uplift, and coming to voice as both women and as writers. Moving through the twentieth century and into the twenty-first, the course may include writers such as Larsen, Fauset, Hurston, Petry, Morrison, Lorde, Naylor, Sapphire, Blackman, Youngblood, and Packer.

**EN 0264 African American Fiction, 1940 to Present****3 Credits**

**Attributes:** ASUP American Studies Upper Level, BSAH Black Studies: Arts and Humanities, BSFC Black Studies Focus Course, ENAM American Literature, E\_AF English Literature After 1800, UDIV U.S. Diversity

**Prerequisite:** One 100-level English literature course.

A comparative study of novels by African American men and women, beginning with Richard Wright and Ann Petry in the 1940s, continuing through the 50s and 60s with writers such as Ralph Ellison, Gwendolyn Brooks, James Baldwin, and Alice Walker, and ending with major novelists from the 1970s, such as Charles Johnson, Toni Cade Bambara, Ernest Gaines, and Toni Morrison. The course focuses on topics such as family, religion, education, and urban experience, education, gender and sexuality, and shifting definitions of Blackness. Narrative techniques offer a main thread of discussion throughout the course.

**EN 0274 Modernism in World Literature****3 Credits**

**Attributes:** E\_AF English Literature After 1800

**Prerequisite:** One 100-level English literature course.

A survey of the international literary movement known as

"Modernism" (roughly 1890-1930, though earlier and later figures are often included). The radical aesthetics of literary Modernism respond to the rapid social and political transformations of the 20th century and to innovative styles in the visual arts, film, music, and architecture. They are also controversial: Are these new styles subversive or reactionary? The art of Europe's elite or the art of a global revolution? Students learn to debate these issues in an informed way, and produce core-integrative projects that explore the connections between modernist literature and other fields of study.

**EN 0275 Modern Women Writers****3 Credits**

**Attributes:** ENAM American Literature, ENBR British Literature, E\_AF English Literature After 1800, WSGF Women, Gender, and Sexuality Studies: Gender Focused

**Prerequisite:** One 100-level English literature course.

This course examines the work of late nineteenth- and early twentieth-century American and British "sisters in error" (as described by poet Dilys Laing). We consider literature and its contexts - social, historical, political, ideological, artistic, and more. Among the concerns raised by these women are the following: the body, sexuality, marriage, motherhood, domesticity, vocation, the making of art and the artist, the homosocial, patriarchy, the struggle for individuality, relations between the sexes, tensions between True Woman and New Woman, and what it means to be "modern." The reading list embraces fiction, poetry, drama, and nonfiction prose. Writers of focus may include Bowen, Chopin, Dinesen, Eaton, Gilman, Glaspell, Hurston, Larsen, Mansfield, O'Connor, Parker, Porter, Spencer, West, Wharton, and Woolf.

**EN 0281 Native American Literature****3 Credits**

**Attributes:** ASEN American Studies: Literature, ASUP American Studies Upper Level, ENAM American Literature, E\_AF English Literature After 1800, UDIV U.S. Diversity

**Prerequisite:** One 100-level English literature course.

This course focuses on novels, short stories, and poems written by Native American writers during the 20th century. For purposes of background, the course also covers a number of significant works composed prior to this century. Students examine texts primarily for their literary value, but also consider the broad image of Native American culture that emerges from these works. The course also examines the philosophical, historical, and sociological dimensions of the material.

**EN 0282 Latin@ Literature****3 Credits**

**Attributes:** ASEN American Studies: Literature, ASUP American Studies Upper Level, ENAM American Literature, E\_AF English Literature After 1800, LCEL LACS Minor: Elective, UDIV U.S. Diversity

**Prerequisite:** One 100-level English literature course.

This is an introductory course on the literature produced by Latinos in the U.S. The course approaches the subject from an interdisciplinary lens, examining the literature from not only the tools available in literary studies but history and sociology, as well. The course will address historical, contemporary political and socioeconomic issues affecting Latinos (the most historically prevalent of which have been immigration status, language regulation, and racial/ethnic discrimination) and connect them to cultural production. We read such authors as Sandra Cisneros, Junot Díaz, Ed Vega Yunque, various Nuyorican and Chicano Poets, and others to better understand the literary and cultural products of the now largest minority group in the U.S. Course readings and discussions are in English. Spanglish is welcomed.

**EN 0283 Asian Diasporas: Challenges to Citizenship****3 Credits**

**Attributes:** ASEN American Studies: Literature, ASUP American Studies Upper Level, E\_AF English Literature After 1800, HACA Humanitarian Action Minor Context Course, UDIV U.S. Diversity, WSGF Women, Gender, and Sexuality Studies: Gender Focused

**Prerequisite:** One 100-level English literature course.

This course examines the explosion of Asian American fiction/cinema to study diasporic, migratory, refugee, socio-cultural and ethnic identities. Together with fiction and cinema, we will study historical and political documents that deal with the interpellation of citizenship challenges of Indian, Afghan, Pakistani, Chinese, Japanese, Bangladeshi, Vietnamese, Korean, Hawaiian-Pacific, and Sri Lankan subjects as seek to be integrated into the State and into US cultures. We study how Asian Americans authors assert their presence to claim American citizenship, while challenging racist, sexist, and xenophobic stereotypes of "aliens" as outsiders and foreigners.

**EN 0291 Gender and Sexuality in Film and Literature****3 Credits**

**Attributes:** E\_AF English Literature After 1800, WSGF Women, Gender, and Sexuality Studies: Gender Focused

**Prerequisite:** One 100-level English literature course.

This course examines the way gender and sexuality are represented in film and literature, beginning with an overview of lesbians and gays in film history with Vito Russo's *The Celluloid Closet*. The course then moves through popular films and novels from the 1960s to the present day, looking at the ways attitudes about gender are enmeshed with representations of homosexuality. Themes and topics include: What is the relationship between gender and sexuality? How are concepts of masculinity and femininity presented in novels and on screen? How have these representations changed as our culture's rules about gender and sexuality have become less rigid? The course aims to develop an analysis of current cultural assumptions about gender and sexuality, as they are revealed in film and literature.

**EN 0292 Contemporary Children's Literature****3 Credits**

**Attributes:** ENAM American Literature, E\_AF English Literature After 1800

**Prerequisite:** One 100-level English literature course.

This course explores children's literature published in the United States between 1950 and the present. The course will give you both the chance to re-acquaint yourself with books that you enjoyed as a child and encounter books you missed when you were young. You will develop what critic U.C. Knoepfelmacher calls "the double perspective," that is, the ability to consider books written for children as both a child and an adult reader. You will read literary criticism on children's literature, as well as information on careers in children's books publishing.

**EN 0311 Chaucer's Canterbury Tales****3 Credits**

**Attributes:** CAOT Catholic Studies: Non-Religious Studies, ENBR British Literature, E\_BF English Literature Before 1800

**Prerequisite:** One 100-level or 200-level English literature course.

This course introduces students to Middle English language and literature through a close study of the poetry of Geoffrey Chaucer, focusing on his *Canterbury Tales*. Students analyze the stylistic forms and representations of 14th-century society through tales, selected for their generic and stylistic variety, that include the tragic and the comic, the sacred and the profane.

**EN 0314 Renaissance Eros****3 Credits**

**Attributes:** E\_BF English Literature Before 1800, WSGF Women, Gender, and Sexuality Studies: Gender Focused

**Prerequisite:** One 100-level or 200-level English literature course.

This course explores eroticism in literature and visual culture in the Italian and English Renaissance(s), a time period from the late fourteenth century to the early seventeenth century. Topics of study include desire, sexual love, and beauty; the philosophy of friendship; the legacy of Petrarchanism; the pervasiveness of same-sex desire; cross-class relationships; and female sovereignty. The course offers a variety of interpretive models to analyze the complex role of eros in the works of Petrarch, Boccaccio, Plato, Shakespeare, Llyl, Marlow, and Montaigne.

**EN 0316 Theoretical Readings of 19th Century Novels****3 Credits**

**Attributes:** E\_AF English Literature After 1800

**Prerequisite:** One 100-level or 200-level English literature course.

This course discusses and debates the meaning of "decadence" as an aesthetic and literary category. Beginning with the works of the pre-Raphaelites in mid-19th-century England, moving to Walter Pater and Oscar Wilde in the Victorian era, and then into Europe with Baudelaire, Flaubert, and Mann, the course focuses upon the role of pleasure in European cultures. Paintings by Moreau, Delacroix, and Ingres complement the understanding of the literary texts. The course treats metaphors of Salome as a femme-fatale and literary characters such as Huysmans' *Des Esseintes* or Wilde's *Dorian Gray* as models for behavior figures in a typology of unorthodox self-fashioning. Theoretical frameworks posited by Adorno and Benjamin will be used to query the constrictions and deconstructions of the European self in that critical cusp between the centuries.

**EN 0317 Advanced Studies in 20th Century British Literature****3 Credits**

**Attributes:** ENBR British Literature, E\_AF English Literature After 1800

**Prerequisite:** One 100-level or 200-level English literature course.

An intensive study of an important theme, topic, or debate that spans most or all of the 20th century in British literature. Possible topics include: the distinction between modernism and postmodernism; the significance and value of aesthetic innovation; interrogation of the British empire; imperial cultural traditions and their aftermath; defining and redefining "Britishness" from modernity through the contemporary global and transnational era; history, memory, and narrative; poetry, poetics, and social change.

**EN 0319 James Joyce****3 Credits**

**Attributes:** CAOT Catholic Studies: Non-Religious Studies, ENBR British Literature, E\_AF English Literature After 1800

**Prerequisite:** One 100-level or 200-level English literature course.

An intensive study of James Joyce's comic novel *Ulysses*, emphasizing thorough close reading of the text, understanding the work relative to Joyce's other fictional masterpieces, and extensive reading of related criticism and scholarship. Highly recommended: students should have read at least one complete work by James Joyce before taking the course.

**EN 0321 Life and Print Culture in 18th Century London****3 Credits**

**Attributes:** ENBR British Literature, E\_BF English Literature Before 1800

**Prerequisite:** One 100-level or 200-level English literature course.

What was it like to live in eighteenth-century London? This course will explore daily life in London from the Great Fire to the French Revolution, using novels alongside other forms of popular literature – pamphlets, ballads, broadsides, cookbooks, and newspapers – to trace what ordinary people talked about and care about in their workaday world. Popular art such as Hogarth's engravings will show us what London and its people looked like. The course will investigate how to evaluate and discuss all forms of popular print culture within the larger context of literature.

<b>EN 0332 American Romanticism</b>	<b>3 Credits</b>	<b>EN 0336 Seminar on Toni Morrison</b>	<b>3 Credits</b>
<b>Attributes:</b> ASEN American Studies: Literature, ASUP American Studies Upper Level, ENAM American Literature, E_AF English Literature After 1800		<b>Attributes:</b> ASEN American Studies: Literature, BSFC Black Studies Focus Course, ENAM American Literature, E_AF English Literature After 1800, PJST Peace and Justice Studies, UDIV U.S. Diversity, WSGF Women, Gender, and Sexuality Studies: Gender Focused	
<b>Prerequisite:</b> One 100-level or 200-level English literature course. This course explores transcendentalism and romanticism during the flowering of intellectual and social life in America from 1830 to 1865. Studying the transatlantic origins of this movement in philosophy, religion, and literature, we examine how these writers responded to literary influences and crafted their unique style. The course also focuses on the relationship between literature and American culture, including a study of the visual arts and material culture. Authors include Emerson, Fuller, Thoreau, Alcott, Poe, Hawthorne, Melville, Douglass, Davis, Whitman, and Dickinson.		<b>Prerequisite:</b> One 100-level or 200-level English literature course. A comprehensive study of the works of Toni Morrison, the course situates her novels and nonfiction prose in their historical and cultural contexts. Attention to narrative techniques as well as to theoretical approaches from a range of disciplines offers students the opportunity to explore topics including gender and slavery, violence and trauma, identity construction, Black masculinity, commodity culture and racialized identity, law and civil rights, accommodation and resistance, family structures, community, geography and location/dislocation/relocation, ethics and relation, and Black female sexualities.	
<b>EN 0333 American Realism and Naturalism</b>	<b>3 Credits</b>	<b>EN 0351 Literary Theory</b>	<b>3 Credits</b>
<b>Attributes:</b> ASEN American Studies: Literature, ASUP American Studies Upper Level, ENAM American Literature, E_AF English Literature After 1800		<b>Attributes:</b> E_AF English Literature After 1800	
<b>Prerequisite:</b> One 100-level or 200-level English literature course. This course examines the literary modes of representation known as realism and naturalism. We will consider the ways in which literature represents, responds to, and shapes the extraordinary transformations in American culture from 1865 through the turn into the twentieth century. The course will consider literature and its contexts - social, historical, political, ideological, artistic, and so on. Writers may include Chesnutt, Chopin, Crane, Davis, Dreiser, Du Bois, Eaton, Freeman, Gilman, Howells, James, Jewett, Norris, Twain, Washington, and Wharton.		<b>Prerequisite:</b> One 100-level or 200-level English literature course. The course examines the major theoretical approaches to the study of literature that developed in relation to important political and intellectual movements of the twentieth century. Despite highly significant differences, we presuppose that all literary theories pose similar questions: What is literature? Why does literature matter, and how do critics assign aesthetic value? This course studies the way various schools of theories have answered these questions. Included in our study are Formalism/New Criticism, Poststructuralism, Psychoanalytic criticism, Feminist theory, Gender and Queer Studies, Postcolonialism, and others. Course readings range broadly from Kant to Derrida, Freud to Spivak.	
<b>EN 0334 American Modernism</b>	<b>3 Credits</b>	<b>EN 0352 Cultural Studies Theory</b>	<b>3 Credits</b>
<b>Attributes:</b> ASEN American Studies: Literature, ASUP American Studies Upper Level, ENAM American Literature, E_AF English Literature After 1800		<b>Attributes:</b> E_AF English Literature After 1800, UDIV U.S. Diversity	
<b>Prerequisite:</b> One 100-level or 200-level English literature course. This course explores the wide ranging cultural dynamics of American literary modernism (roughly 1920-1950) in the works of writers such as Hurston, Hemingway, Yezierska, Eliot, Hughes, Falkner, Matthews. Topics to discuss include, but are not limited to, time, space, gender, nationality, race, and ethnicity.		<b>Prerequisite:</b> One 100-level or 200-level English literature course. This interdisciplinary course examines the concept of culture as it is constructed, sustained, and contested within the United States and the United Kingdom. Readings focus on the history, theory, and practice of culture (high and mass) in the two countries. Class discussions focus on the interactive impact of our understanding of the term "culture" upon contemporary societies as it factors into nationhood, race, gender, class, sexuality, and media. As a way of understanding the various theories that undergird the experiential manifestations of culture, students will be exposed to print/visual texts and multimedia forms of expressions circulating in society.	
<b>EN 0335 Contemporary American Literature and Culture</b>	<b>3 Credits</b>	<b>EN 0353 Representations</b>	<b>3 Credits</b>
<b>Attributes:</b> ASEN American Studies: Literature, ASUP American Studies Upper Level, ENAM American Literature, E_AF English Literature After 1800		<b>Attributes:</b> E_AF English Literature After 1800, WSGF Women, Gender, and Sexuality Studies: Gender Focused	
<b>Prerequisite:</b> One 100-level or 200-level English literature course. This course examines significant developments in American Literature and Culture from the period following World War II to the present. The course explores the turn to cultural studies in the field of literary studies that occurred during this period, allowing us to examine non-traditional literary texts such as music, film, graphic novels, and games. We ground our discussion heavily in literary theory.		<b>Prerequisite:</b> One 100-level or 200-level English literature course. This course focuses on "ways of seeing" and the "gaze" that are constructed and maintained in contemporary culture within the concept of representation. The course balances on the margins of textual and visual materials (paintings and films); offers an interdisciplinary theoretical base; examines the presentation and representation of self, subject, and identity as narrative, biography, and autobiography; and questions notions of realism and politics of realism as manifested by deploying race, class, nationality, sexuality, and gender. By reading theoretical tracts on the ways of seeing and by using films and visual art to test these theoretical materials, students critique contemporary notions of seeing and being seen.	

**EN 0354 Theories of Globalization****3 Credits****Attributes:** E\_AF English Literature After 1800, WDIV World Diversity**Prerequisite:** One 100-level or 200-level English literature course.

This course teaches students how globalization is defined by major theorists and how to interpret the effects of its massive and random forces. Students grasp the differences between economic, political, and cultural explanations and the actual impact of globalization. The theories are tested against new literatures to see how novelists manipulate the forces of globalization - such as explaining the feminization of poverty, ethnic cleansing, human rights violations, access to natural resources like water and land, terrorisms and proliferation of nuclear arms, religious fundamentalisms - through their characters. One of the crucial and consistent foci of class discussions is exploration of ethical ways to deal with globalization, the potential for civic engagement, and the responsibility we all share in creating a global civil society.

**EN 0372 All About Eve****3 Credits****Attributes:** CAOT Catholic Studies: Non-Religious Studies, ENBR British Literature, E\_BF English Literature Before 1800, WSGF Women, Gender, and Sexuality Studies: Gender Focused**Prerequisite:** One 100-level or 200-level English literature course.

This course surveys the literary and artistic representation of the legendary first woman of the Judeo-Christian tradition from Genesis to the present, with attention to both feminist and antifeminist traditions. The course centers on a reading of Milton's Paradise Lost. Other authors include Christine de Pizan, Aemilia Lanyer, Mary Wollstonecraft, Mark Twain, and Ursula Le Guin. In a final research paper, students locate and interpret depictions of Eve in contemporary popular culture. Non-English sources are read in English translation.

**EN 0373 Literature for Young Adults****3 Credits****Attributes:** EDCG Educational Studies Cognate, E\_AF English Literature After 1800**Prerequisite:** One 100-level or 200-level English literature course.

During the past two decades, adolescent literature has proliferated, grown more diverse, and improved in richness and quality. The course explores the major current authors, poets, and illustrators of works written for young adults. Topics include theories and purposes of reading literature in the classroom; criteria development for evaluating adolescent literature; reader response in the classroom; reading workshop; and adolescent literature integration across the curriculum.

**EN 0374 The Woman Question: Early Feminism and 19th Century****Transatlantic Literature****3 Credits****Attributes:** ASEN American Studies: Literature, ASUP American Studies Upper Level, ENAM American Literature, ENBR British Literature, E\_AF English Literature After 1800, WSGF Women, Gender, and Sexuality Studies: Gender Focused**Prerequisite:** One 100-level or 200-level English literature course.

This course will examine the issue properly known as the Woman Question through some of the major works of 19th-century literature. Because the philosophical and political debates concerning Woman's role preoccupied not only 19th-century America but also Victorian Britain, we will consider American and British discussions as part of a transatlantic conversation. The course begins with early Victorian literature, moving across the Atlantic to the 1840s and 50s, when a group of "domestic feminists" became the most popular writers in the U.S. The course closes at the fin de siècle, when the conventions of sentimental fiction and "True Womanhood" were being superseded by realism and naturalism, and when an explicitly anti-domestic image of womanhood began to be formulated around the figure of the "New Woman." Authors may include Brontë, Fuller, Elizabeth Barrett Browning, Stowe, Fern, Jacobs, Christina Rossetti, Taylor, Mill, Patmore, Linton, Dickinson, Alcott, James, Ibsen, Harper, Gilman, Chopin, Freeman, and Wharton.

**EN 0375 Caribbean Women Writers****3 Credits****Attributes:** ASEN American Studies: Literature, ASUP American Studies Upper Level, BSAH Black Studies: Arts and Humanities, BSCC Black Studies Component Course, EDDV Educational Studies Diversity, E\_AF English Literature After 1800, LCEL LACS Minor: Elective, WDIV World Diversity, WSGF Women, Gender, and Sexuality Studies: Gender Focused**Prerequisite:** One 100-level or 200-level English literature course.

This course offers a Pan-Caribbean study of women's writing, primarily contemporary fiction. Setting the novels in a context that begins in the Middle Passage or comparable forced migration to the Americas, we examine the interconnections between those traumatic experiences and the relations established and demanded by imperialism. Topics for discussion include spaces and languages of resistance; genealogies, family trees, roots; memory and exile; political activism and its consequences; labor and socioeconomics; the role of education in colonialism and in immigrant life; and challenges to conventional categories of identity. Authors may include Marshall, Hopkinson, Kincaid, Condé, Danticat, Santiago, Santos-Febres, Obejas, McWatt, Brand, Collins, Mootoo, Espinet, Lara, and John.

**EN 0376 Global Women's Fiction****3 Credits****Attributes:** E\_AF English Literature After 1800, WDIV World Diversity, WSGF Women, Gender, and Sexuality Studies: Gender Focused**Prerequisite:** One 100-level or 200-level English literature course.

This comparative study of fictional works by women begins with a discussion of issues raised in Virginia Woolf's *A Room of One's Own*, and focuses on writers from the early twentieth century to the present. Drawn from a wide range of world literatures and cultures, authors may include Aleramo, Djebbar, al-Shaykh, Aidoo, Truong, Valenzuela, Menéndez, Roy, Dangarembga, Gordimer, Olsson, Rachlin, and Lispector. Topics include narrative techniques, women's relationship to the polis, women's participation in public culture and their artistic creativity, gender and sexuality, cross-class relations between women, and contemporary issues linked to globalization.

**EN 0377 Urban Texts and Contexts: NYC****3 Credits**

**Attributes:** ASEN American Studies: Literature, ASUP American Studies Upper Level, E\_AF English Literature After 1800, WSGF Women, Gender, and Sexuality Studies: Gender Focused

**Prerequisite:** One 100-level or 200-level English literature course.

This course explores literary and visual evocations of the city from an interdisciplinary and theoretical perspective. In many ways, a city is as much a mental construct as a physical one, referred to as image, idea, myth, metaphor, vision, catalyst, and more. The course considers how such terms apply to representations of a metropolis, as well as how the city can be viewed as artifact or fiction. Drawing upon theories from geography, architecture, sociology, and urban studies, we examine the traditional dichotomy between city and country, the relationship between gender and sexuality and urban representation, and the ways that community is defined and envisioned in contemporary urban contexts.

**EN 0390 Literature Capstone****3 Credits**

**Prerequisites:** EN 0351 or EN 0352; one 300-level literature course; junior or senior standing.

The capstone seminar course provides Literature Concentration students with a cohort experience in which they integrate their literature coursework and produce a substantive research project. The capstone course functions as a seminar in which the students begin the semester with shared readings and discussion on a theme chosen by the instructor, including theory and research methodology. Students are encouraged to consider presenting their research in either traditional or digital format.

**EN 0399 Independent Study****1-4 Credits**

See department chair for details.

**EN 0405 Literature for Young Adults****3 Credits**

**Attributes:** EDCG Educational Studies Cognate, E\_AF English Literature After 1800

During the past two decades, adolescent literature has proliferated, grown more diverse, and improved in richness and quality. The course explores the major current authors, poets, and illustrators of works written for young adults. Topics include theories and purposes of reading literature in the classroom; criteria development for evaluating adolescent literature; reader response in the classroom; reading workshop; and adolescent literature integration across the curriculum.

**EN 0411 Teaching Writing in the 3-12 Classroom****3 Credits**

This course provides teachers and prospective teachers with a theoretical background in writing process as well as practical techniques for applying the theory. The course helps teachers develop awareness of their own composing processes and the processes of others. Topics include writing needs of diverse populations, the reading/writing relationship, writing of different genres, mini-lessons, conferencing techniques, revision techniques, writing across the curriculum, publishing alternatives, portfolios, and other forms of assessment. Underlying the class is the premise that in sharing their perspectives, teachers at the elementary and secondary levels enhance each other's performance as writing educators and as writers.

**EN 0417 Teaching and Learning Grammar****3 Credits**

Designed for English education majors and for experienced English teachers, this course presents an introduction to the principles of modern descriptive linguistics, especially as it relates to present-day English, its grammatical structure, its sound and spelling systems, and its vocabulary and rules of usage. The course approaches modern English grammar from structural and transformational viewpoints, placing special emphasis on the teaching of language arts, including composition and stylistic analysis.

# English for Engineers (EEG)

**EEG 0401 English Skills for Engineering Graduate Students****1 Credit**

This course is designed for international engineering students pursuing an advanced degree. It is mandatory for students who score below 600 on the Test of English as a Foreign Language (TOEFL). Topics include conducting and writing research reviews, summaries, and bibliographies; research data bases in engineering; using library resources; organization and writing research papers in English; and plagiarism and why it matters.

# English: Writing (ENW)

**ENW 0200 Creative Writing****3 Credits**

**Prerequisite:** EN 0012.

This course fosters creativity and critical acumen through extensive exercises in the composition of poetry and fiction.

**ENW 0202 Creative Writing: Poetry I****3 Credits**

**Prerequisite:** EN 0012.

This workshop course concentrates on the analysis and criticism of student manuscripts, devoting a portion of the course to a discussion of major trends in contemporary poetry and significant movements of the past. The course considers traditional forms, such as the sonnet and villanelle, as well as modern experimental forms and free verse. Students learn how to prepare and submit manuscripts to publishers.

**ENW 0204 Creative Writing: Drama****3 Credits**

**Prerequisite:** EN 0012.

This course teaches the writing of one-act plays for the stage in a workshop format that involves envisioning, writing/drafting, and regular revision of seed-ideas and subjects. The process requires skillful, imaginative handling of the formative elements of drama, including plot, character, language or speech-action, envisaged staging, and form. It also involves timely submission of assignments and drafts of scenes and whole plays for periodic in-class readings and feedback. Students are expected to submit at specified times midterm and final drafts that demonstrate the technique or art of playwriting as well as conform to the general requirements of the course.

**ENW 0205 Creative Writing: Fiction I****3 Credits**

**Prerequisite:** EN 0012.

This course for the student who seeks an intensive workshop approach to fiction composition emphasizes the short story and focuses on the analysis of student manuscripts. It includes some discussion of the work of significant authors (past and present) as a way of sharpening student awareness of technique and the literary marketplace for fiction.

**ENW 0206 Creative Writing: Nonfiction I****3 Credits**

**Attributes:** ENDE Digital Journalism Elective

**Prerequisite:** EN 0012.

This course offers students the opportunity to study and practice the art and craft of literary nonfiction. Students will study the work of accomplished writers in the field, both past and present, as a foundation for analyzing and critiquing each other's manuscripts in workshop format. Forms studied and practiced will include the memoir, personal essay, and reflective essay.

<b>ENW 0207 Themes in Creative Writing</b>	<b>3 Credits</b>	<b>ENW 0290 Writing and Responding</b>	<b>3 Credits</b>
<b>Attributes:</b> HSTE Health Studies: Traditions, Delivery, and Ethics		<b>Prerequisite:</b> EN 0012 (concurrency allowed).	
<b>Prerequisite:</b> ENW 0202 or ENW 0205 or ENW 0206.		This course introduces the field of contemporary composition theory. Composition theorists consider ways of responding to the words of other people in a manner that is thoughtful, careful, and provocative. At the same time, they learn that by responding to the work of others, they ultimately become better writers and better thinkers themselves. This course focuses specifically on the response types appropriate for one-to-one work with writers. Students also gain hands-on experience in the course by writing extensively, sharing writing with other class members, critiquing student texts, and engaging in trial tutoring sessions. This course is a prerequisite for anyone wishing to apply for a paid position as a peer tutor in the Fairfield University Writing Center.	
<b>ENW 0214 Professional Presentations: Writing and Delivery</b>	<b>3 Credits</b>	<b>ENW 0302 Creative Writing: Poetry II</b>	<b>3 Credits</b>
<b>Attributes:</b> ENDE Digital Journalism Elective		<b>Prerequisite:</b> ENW 0202.	
<b>Prerequisite:</b> EN 0012.		In a workshop setting, the class discusses six assignments, writing about a painting or writing in a structured form such as a sestina or sonnet. In addition to looking at models that illustrate individual assignments, the class reads collections by six poets and discusses a book on traditional forms.	
<b>ENW 0220 News Writing</b>	<b>3 Credits</b>	<b>ENW 0305 Creative Writing: Fiction II</b>	<b>3 Credits</b>
<b>Prerequisite:</b> EN 0012 (concurrency allowed).		<b>Prerequisite:</b> ENW 0205.	
This introductory course emphasizes the techniques used by reporters to collect information and write stories for newspapers, magazines, the Internet, and broadcast outlets. Students learn to gather information, interview sources, write leads, structure a story, and work with editors. Students analyze how different news organizations package information, hear from guest speakers, and visit working journalists in the field. Students develop a higher level of media literacy and learn to deal with the news media in their careers.		This advanced workshop further develops skills begun in ENW 0205 by looking closely at the craft of fiction. Students produce a substantial body of quality work such as several full-length short stories or substantial revisions, a novella, or several chapters of a novel. In addition to reading selections from published fiction writers, students read and comment extensively on their peers' work.	
<b>ENW 0221 News Writing II: Digital Design</b>	<b>3 Credits</b>	<b>ENW 0306 Creative Writing: Nonfiction II</b>	<b>3 Credits</b>
<b>Prerequisite:</b> ENW 0220.		<b>Prerequisite:</b> ENW 0206.	
The journalism world is in the middle of a transformation in the way stories are conceptualized, generated and communicated. Digital Journalism will help students discover how to take advantage of the multimedia possibilities in this new world of online story telling. This intermediate writing and multimedia course will allow students to build more complex and engaging story packages, taking advantages of new computer tools like the Adobe Creative Suite. It also will introduce students to the literature of publication design and help them develop an appreciation of the contributions that various world cultures have made to communication and design aesthetics.		This advanced workshop builds upon students' experience in creative nonfiction and allows students to practice the art of memoir in a workshop setting. Students will read in subgenres such as Adversity/Transformation, Family/Generational, Political/Social, and Spiritual Memoirs and comment extensively upon their peers' work while reading exemplary work in the genre.	
<b>ENW 0222 Journalism Editing and Design</b>	<b>3 Credits</b>	<b>ENW 0307 Form and Theory of Creative Writing</b>	<b>3 Credits</b>
<b>Attributes:</b> ENDE Digital Journalism Elective		<b>Prerequisites:</b> ENW 0202, ENW 0205, ENW 0206.	
<b>Prerequisite:</b> ENW 0220.		This course invites deeper study into the theoretical underpinnings of and diversity of formal choices available within a given genre in creative writing. Students will study theories of composition, the origins and utility of certain techniques specific to the genre, and will be asked to experiment with how these theories and practices inform their own experience of writing in the genre. Sustained attention to the functioning of language within the genre, and discussion of the process by which literary works within that genre gain their specific meanings.	
<b>ENW 0311 Teaching and Writing</b>	<b>3 Credits</b>	<b>ENW 0311 Teaching and Writing</b>	<b>3 Credits</b>
<b>Attributes:</b> EDCG Educational Studies Cognate		<b>Prerequisite:</b> EN 0012.	
<b>Prerequisite:</b> EN 0012.		This course is designed to enhance students' skill as writers and their preparation as future teachers of writing in elementary and secondary schools. The course explores four significant questions: How do students learn to write? What experiences encourage good writing? How can your own experience as a writer inform your teaching? And, What do professional or state standards (such as the Common Core State Standards) require students to know about writing? Students have opportunities to write in a variety of genres and for a range of audiences. This course will help students develop the knowledge, skills, and competences to meet the NCTE/NCATE Standards for the Initial Preparation of Teachers of Secondary English Language Arts.	

<b>ENW 0317 Teaching and Learning Grammar</b>	<b>3 Credits</b>	<b>ENW 0330 Literary Journalism</b>	<b>3 Credits</b>
<b>Attributes:</b> ENDE Digital Journalism Elective		<b>Attributes:</b> ENDE Digital Journalism Elective	
<b>Prerequisite:</b> EN 0012.		<b>Prerequisite:</b> EN 0012.	
This course is intended for students who may want to teach English Language Arts and who want to build (or build on) a strong foundation in both traditional and alternative models of English grammar and pedagogy. This course will help students develop the knowledge skills and competences to meet the NCTE/ NCATE Standards for the Initial Preparation of Teachers of Secondary English Language Arts. A primary goal of the course is to help future teachers understand the study of grammar as more than learning a static list of "rules," but rather as a set of overlapping inquiries into the origins, nature, uses, and consequences of language.		This course focuses on the use of story-telling techniques in writing creative nonfiction. Students learn how to make factual articles come alive by incorporating techniques such as narrative, dialogue, scene-setting, pacing, conflict and resolution. The course emphasizes interviewing and advanced research techniques used in writing these creative nonfiction articles for newspapers, magazines, books, and online sources. There will be substantial reading and analysis of classics in the literary journalism field.	
<b>ENW 0320 Writing the Feature Story</b>	<b>3 Credits</b>	<b>ENW 0332 Business Writing</b>	<b>3 Credits</b>
<b>Attributes:</b> ENDE Digital Journalism Elective		<b>Attributes:</b> BUEL Business Elective, ENDE Digital Journalism Elective	
<b>Prerequisite:</b> ENW 0220.		<b>Prerequisite:</b> EN 0012.	
Students learn how to generate and develop feature story ideas, including human-interest stories, backgrounders, trend stories, personality profiles and other softer news approaches for use by newspapers, magazines, and web sites. The course stresses story-telling techniques and use of alternative leads. Interviewing, web research and rewriting techniques are stressed.		This course investigates the demands of business writing, including designing documents that visually display information and invite readers to read either quickly or thoroughly. The course stresses theoretical issues as well as practical skills. Students practice writing skills on a variety of projects including memos, proposals, reports, collaborative writing, and writing as part of the job-hunting process. Learning goals include understanding the purposes of writing in business and industry, writing with a clear sense of audience, becoming familiar with document design and electronic communication, ethical and cross-cultural issues, and reviewing scholarly writing and research in this academic field.	
<b>ENW 0321 Big Data Storytelling</b>	<b>3 Credits</b>	<b>ENW 0335 Technical Writing</b>	<b>3 Credits</b>
<b>Prerequisite:</b> ENW 0220.		<b>Attributes:</b> ENDE Digital Journalism Elective, EVAP Environmental Studies: Applied Professional Skills	
This intermediate course synthesizes cutting-edge big data technologies and traditional news writing and aims to produce compelling stories by mining the enormous public data provided by government and non-profit organizations. Other than overviewing the construct of big data, its origin, and social impact, the course offers hands-on training on using intuitive tools to produce engaging data-driven stories. Students will walk through the entire production process: data access, retrieval, cleaning, analysis, and visualization. Principles of information visualization and interface design will be applied throughout the course, accompanied by in-depth discussions on legal and ethical challenges facing big data story telling.		<b>Prerequisite:</b> EN 0012.	
<b>ENW 0323 Photojournalism</b>	<b>3 Credits</b>	This course investigates the theory and practice of writing in technical fields, introducing students to types of oral, written, and hypertext communication that technical writers use in workplace settings. In-class writing activities, workshops, and lengthier projects familiarize students with the styles, organizations, and formats of various documents, and prepare students for the special demands of technical writing. The course also introduces students to research and scholarly writing in the academic field. This course is suitable for advanced undergraduate students preparing for writing-intensive careers or graduate school, as well as technical writing professionals and practitioners who wish to plan, research, and write more effectively. Available to MPA students with permission; additional coursework required.	
<b>Attributes:</b> ENDE Digital Journalism Elective, ENPC Digital Journalism Production Component		<b>ENW 0336 Issues in Professional Writing</b>	<b>3 Credits</b>
<b>Prerequisite:</b> ENW 0220.		<b>Attributes:</b> ENDE Digital Journalism Elective, ENPC Digital Journalism Production Component	
Photography is derived from the Greek words for light and writing. Just as a journalist masters the art of words, a photographer masters the art of writing with light. A photographer tells a story with a single image, or multiple images, which impact the readers with a wide variety of human emotions. This course is about reporting with a camera, the visual aspect of journalism. Some technical aspects will be covered, but the majority will be hands-on assignments that are typical of newspapers, magazines, and web sites. There is substantial reading on photojournalism, plus a variety of writing assignments.		<b>Prerequisite:</b> EN 0012.	
<b>ENW 0329 Issues in News Writing</b>	<b>3 Credits</b>	This course investigates a variety of issues relevant to contemporary professional writing. In addition to surveying theoretical positions in the discipline, the course emphasizes preparing effective written products for academic and professional settings. In-class writing activities, workshops, and lengthier projects prepare students to think critically in this dynamic and ever-changing profession while familiarizing them with the writing styles, organizations, and formats of various documents. Topics include writing for public relations, multimedia writing, and technical and professional editing. This course is suitable for advanced undergraduate students preparing for writing-intensive careers or graduate school. Students may take this course twice under different subtitles.	

**ENW 0337 Multimedia Writing****3 Credits****Attributes:** ENPC Digital Journalism Production Component**Prerequisite:** EN 0012.

The purpose of this class is to encourage students to question how rhetoric functions in and through multimodal texts. Specifically, our goal throughout this course is to answer the question: what makes for an effective multimodal text? We will examine how meaning is construed through the use of images, sounds, arrangements, colors, shapes, sizes, movement, and fonts. We will analyze the ways rhetors construct multimodal texts, and we will also create our own multimodal texts. Together we will learn to use Photoshop, iMovie, Dreamweaver, CSS, and HTML in order to create rhetorically savvy multimodal texts.

**ENW 0338 Persuasive Writing****3 Credits****Attributes:** ENDE Digital Journalism Elective**Prerequisite:** EN 0012.

This course sharpens students' skills in argument and encourages a clear, forceful prose style. Students practice writing skills in a variety of projects including resumes and cover letters, editorials, formal proposals, and public service announcements designed for video podcasts.

Students will learn how to analyze an audience and use key features of persuasion such as concessions, disclaimers, rebuttals, and effective leads. The course examines the ethical responsibilities of a persuasive writer in business and civic life.

**ENW 0339 Grant and Proposal Writing****3 Credits**

**Attributes:** ENDE Digital Journalism Elective, EVAP Environmental Studies: Applied Professional Skills , HASM Humanitarian Action Minor Skills/Method Course, UDIV U.S. Diversity

**Prerequisite:** EN 0012.

This course prepares students to write effective proposals and reports. Students learn to define and write problem statements, objectives, plans of action, assessment documents, budget presentations, and project summaries. In addition, they sharpen their teamwork, editing, writing, audience awareness, and design skills as they engage in collaborative projects with non-profit organizations in the community. Relevant historical and ethical considerations are discussed. A service-learning component is included in this course. Available to MPA students with permission; additional coursework required.

**ENW 0340 World of Publishing I****3 Credits****Attributes:** ENDE Digital Journalism Elective**Prerequisite:** EN 0012.

This course introduces students to the field of publishing, particularly book and magazine publishing. It provides students with a solid foundation in the publishing field (e.g., selecting and editing manuscripts, book/magazine production, and marketing) and offers students practical hands-on experience similar to that of an internship position at a magazine or publishing house. In addition to attending lectures and participating in discussion, students work on the University's national literary magazine, Dogwood.

**ENW 0341 World of Publishing II****3 Credits****Attributes:** ENDE Digital Journalism Elective**Prerequisite:** ENW 0340.

Students gain hands-on experience in the field of publishing, particularly book and magazine publishing, by working as associate editors in the preparation of the University's national literary magazine, Dogwood, including work with digital publishing and design platforms.

**ENW 0342 Sports Journalism****3 Credits****Attributes:** ENDE Digital Journalism Elective

This course instructs students in the skills necessary to be a member of the evergrowing field of sports media, while simultaneously examining how early 1900s sports writing grabbed a foothold in the American public's consciousness and eventually paved the path to today's Golden Age of sports journalism. Students will learn to cover a wide variety of sports, and will report and write everything from game stories to opinion pieces to in-depth, multimedia feature stories focused on the sporting world.

**ENW 0345 Internship****1-3 Credits****Attributes:** ENCP Digital Journalism Capstone Course**Prerequisite:** EN 0012.

The internship program allows students to gain on-site experience in the fields of journalism, publishing, and public relations through supervised work for local newspapers, magazines, publishers, and news agencies. These positions are available upon recommendation of the department intern supervisor, under whose guidance the students assume the jobs, which require 10 to 15 hours a week. Students may take one internship for credit toward the English major. Students may take a second internship for elective credit. The internship workshop is held in the evening, once a month. Enrollment by permission only.

**ENW 0346 Internship****1-3 Credits****Attributes:** ENCP Digital Journalism Capstone Course**Prerequisite:** EN 0012.

The internship program allows students to gain on-site experience in the fields of journalism, publishing, and public relations through supervised work for local newspapers, magazines, publishers, and news agencies. These positions are available upon recommendation of the department intern supervisor, under whose guidance the students assume the jobs, which require 10 to 15 hours a week. Students may take one internship for credit toward the English major. Students may take a second internship for elective credit. The internship workshop is held in the evening, once a month. Enrollment by permission only.

**ENW 0347 Independent Writing Project****3 Credits****Attributes:** ENCP Digital Journalism Capstone Course**Prerequisite:** EN 0012.

Students undertake individual tutorials in writing and can obtain credit for writing for The Mirror, The Sound, or for other projects of personal interest. Only one independent writing project can be counted toward fulfilling the five field electives required to complete an English major. The department will consider exceptions only if multiple Independent Writing Project courses cover different subject areas and approval in advance is obtained. Enrollment by permission only.

**ENW 0348 Independent Writing Project****3 Credits****Prerequisite:** EN 0012.

Students undertake individual tutorials in writing and can obtain credit for writing for The Mirror, The Sound, or for other projects of personal interest. Only one independent writing project can be counted toward fulfilling the five field electives required to complete an English major. The department will consider exceptions only if multiple Independent Writing Project courses cover different subject areas and approval in advance is obtained. Enrollment by permission only.

**ENW 0350 Special Topics in Writing (Shell)****3 Credits****Prerequisite:** EN 0012.

This course is an umbrella under which a variety of courses can be taken on an experimental or temporary basis, exploring different writing styles and approaches.

<b>ENW 0397 Journalism Practicum</b>	<b>3 Credits</b>	<b>ENW 0446 Poetry</b>	<b>6 Credits</b>
<b>Attributes:</b> ENCP Digital Journalism Capstone Course, ENDE Digital Journalism Elective		<b>Corequisite:</b> ENW 0449.	
<b>Prerequisites:</b> ENW 0220; junior or senior standing; one semester on Mirror.		The course is an intensive, ten-day program of study. Students must submit two creative pieces to their respective workshop faculty prior to the residency and attend daily workshops. Within the workshops, they must actively participate, both orally and by providing written comments on their peers' work. Students must attend at least six afternoon seminars, lectures, or panel discussions presented by resident faculty and visiting experts. Preparation for each event involves students having completed a required reading list. After the seminar, a student must submit written critiques of what they learned. Finally, all students must attend evening readings by faculty. At the end of the residency, students work out a semester plan with their assigned mentor for the following semester. This plan must be approved and signed by the mentor and submitted to the MFA administration.	
<b>ENW 0398 Publishing Practicum</b>	<b>3 Credits</b>	<b>ENW 0447 Independent Study: Fiction</b>	<b>6 or 9 Credits</b>
<b>Attributes:</b> ENDE Digital Journalism Elective		This course is a five-month, intensive distance-learning writing program of study developed by both the student and his or her assigned mentor. Under the mentor's guidance, the student will develop a plan to improve his or her ability to write in one genre of fiction (e.g., the short story, the novel, the historical novel). The student will be required to write a minimum of 100 pages, spread out over five monthly submissions to the mentor, and the mentor will respond with specific written notes analyzing the work's strengths and weaknesses. In addition, the student will be required to read a minimum of two books per month and to write two essays on some element of the craft, totaling ten craft essays during the term. The mentor will provide feedback on all of the student's writing, accentuated by both a mid-term assessment of the student's development and a final assessment along with a grade.	
<b>Prerequisite:</b> ENW 0341; Junior or senior standing.		<b>ENW 0448 Independent Study: Non-Fiction</b>	<b>6 or 9 Credits</b>
Students apply material learned in ENW 0340 as they serve in a senior editorial role as a Managing Editor in the preparation of the University's national literary magazine, Dogwood. Enrollment by permission only.		This course is a five-month, intensive distance-learning writing program of study developed by both the student and his or her assigned mentor. Under the mentor's guidance, the student will develop a plan to improve his or her ability to write short personal essays or the memoir. The student will be required to write a minimum of 100 pages, spread out over five monthly submissions to the mentor, and the mentor will respond with specific written notes analyzing the work's strengths and weaknesses. In addition, the student will be required to read a minimum of two books per month and to write two essays on some element of the craft, totaling ten craft essays during the term. The mentor will provide feedback on all of the student's writing, accentuated by both a mid-term assessment of the student's development and a final assessment along with a grade.	
<b>ENW 0399 Advanced Portfolio Workshop</b>	<b>3 Credits</b>	<b>ENW 0449 Independent Study: Poetry</b>	<b>6 or 9 Credits</b>
<b>Prerequisites:</b> ENW 0302 or ENW 0305 or ENW 0306.		This course is a five-month, intensive distance-learning writing program of study developed by both the student and his or her assigned mentor. Under the mentor's guidance, the student will develop a plan to improve his or her ability to write poetry. The student will be required to write a minimum of 20 new poems, spread out over five monthly submissions to the mentor, and the mentor will respond with specific written notes analyzing the work's strengths and weaknesses. In addition, the student will be required to read a minimum of two books per month and to write two essays on some element of poetry craft, totaling ten craft essays during the term. The mentor will provide feedback on all of the student's writing, accentuated by both a mid-term assessment of the student's development and a final assessment.	
<b>ENW 0444 Fiction</b>	<b>6 Credits</b>		
<b>Corequisite:</b> ENW 0447.			
The course is an intensive, ten-day program of study. Students must submit two creative pieces to their respective workshop faculty prior to the residency and attend daily workshops. Within the workshops, they must actively participate, both orally and by providing written comments on their peers' work. Students must attend at least six afternoon seminars, lectures, or panel discussions presented by resident faculty and visiting experts. Preparation for each event involves students having completed a required reading list. After the seminar, a student must submit written critiques of what they learned. Finally, all students must attend evening readings by faculty. At the end of the residency, students work out a semester plan with their assigned mentor for the following semester. This plan must be approved and signed by the mentor and submitted to the MFA administration.			
<b>ENW 0445 Non-Fiction</b>	<b>6 Credits</b>		
<b>Corequisite:</b> ENW 0448.			
The course is an intensive, ten-day program of study. Students must submit two creative pieces to their respective workshop faculty prior to the residency and attend daily workshops. Within the workshops, they must actively participate, both orally and by providing written comments on their peers' work. Students must attend at least six afternoon seminars, lectures, or panel discussions presented by resident faculty and visiting experts. Preparation for each event involves students having completed a required reading list. After the seminar, a student must submit written critiques of what they learned. Finally, all students must attend evening readings by faculty. At the end of the residency, students work out a semester plan with their assigned mentor for the following semester. This plan must be approved and signed by the mentor and submitted to the MFA administration.			

**ENW 0450 Stage and Screen****Corequisite:** ENW 0451.

This course is composed of workshops in the area of Writing for Stage and Screen and all other requirements during one graduate MFA residency. Workshop topics include the writing of plays and screenplay as well as principles and application of dramatic structure. Students will actively participate, both orally and by providing written comments on their peers' work. Students must attend at least five afternoon seminars, lectures, or panel discussions.

**ENW 0451 Independent Study: Stage and Screen****6 or 9 Credits**

This distance-learning independent study comprises a semester's work with a faculty mentor for the MFA program, focusing on writing plays, screenplays, and cross-genre work as well as work in dramatic and narrative structure. A schedule and program of study is developed by both the student and assigned faculty mentor, including approximately 100 pages of creative work as well as a list of books and supplemental readings, and ten pages of analysis and discussion of craft during the semester.

**ENW 0452 Directed Independent Study****3 Credits**

This independent study course comprises a semester's work with a faculty mentor in preparation for entering the MFA program and as a companion to the certificate program. A schedule and program of study is developed by both the student and assigned faculty mentor, including approximately 15 books and supplemental readings and twenty pages of analysis and discussion of craft during the semester. Students will normally have completed the 12-credit creative writing certificate program and will be either in the process of applying to or already accepted to the MFA program.

**ENW 0497 Seminar in Rhetoric and Composition Theory and Practice****3 Credits****ENW 0498 Rhetoric and Composition Practicum****3 Credits**

## **Environmental Studies (EV)**

**EV 0298 Internship****1-3 Credits**

**Attributes:** EVCA Environmental Studies: Capstone, EVPE Environmental Studies Elective

**Prerequisites:** Completion of three environmental studies courses; program approval.

Environmental studies minors gain firsthand experience working off campus in fields related to environment science, policy, economics, education, and other issues. Typically, an internship requires 8 to 12 hours per week on site and a journal or summary report for credit. An on-site supervisor and an environmental studies professor evaluate student work. Students must have a GPA of 3.0 or higher.

**EV 0299 Independent Study****1-3 Credits**

**Attributes:** EVCA Environmental Studies: Capstone, EVPE Environmental Studies Elective

**Prerequisites:** junior or senior standing, three environmental studies program courses, and program approval.

A student may conduct a one-semester independent study on a defined research topic or field of study under the supervision of a professor in the Environmental Studies Program. Credit requires prior approval by the Professor which whom the student will work as well as the Director of the Environmental Studies Program. Students must have a GPA of 3.0 or higher.

**6 Credits****EV 0301 Environment Workshop****3 Credits**

**Attributes:** EVCA Environmental Studies: Capstone, EVPE Environmental Studies Elective

The Environment Workshop is a capstone course for students in the Environmental Studies Program but is also open to all juniors and seniors at the University. This course centers on a semester long, interdisciplinary project that examines a particular environment-related issue and proposes practical solutions.

**EV 0303 Campus Sustainability****3 Credits**

**Attributes:** EVME Environmental Studies Major Elective, EVPE Environmental Studies Elective, EVSS Environmental Studies: Social Science

Sustainability has become a nearly unassailable catchphrase for the 21st century. But what does it really mean? Not in a book but in practice? This course uses the Fairfield University campus and the expanding literature on best practices to explore key sustainability issues facing colleges, corporations, small towns, cities, and private citizens. The class will include off-campus site visits, guest speakers, and free ranging discussions of cutting edge readings. Students will also conduct semester-long individual or group interdisciplinary projects that analyze specific sustainability issues.

## **Family Therapy (FT)**

**FT 0098 Comprehensive Exam in Family Studies****0 Credits**

The family studies comprehensive exam is a standardized exam in which the candidate answers questions that require them to demonstrate understanding and mastery of terms reflecting the content they have learned throughout the program. It is highly recommended that candidates complete their comprehensive exam during the semester prior to the one in which they plan to graduate.

**FT 0099 Comprehensive Exam in Marriage and Family Therapy****0 Credits**

The marriage and family therapy comprehensive exam is a standardized exam in which the candidate answers questions that require them to demonstrate understanding and mastery of terms reflecting the content they have learned throughout the program. It is highly recommended that candidates complete their comprehensive exam during the semester prior to the one in which they plan to graduate.

**FT 0425 Private Practice and Small Business Management****3 Credits**

This course will provide an overview of small business and private practice management. Students will become acquainted with the technical and personal elements necessary to create and sustain a private practice. Attention will be focused on narrowing student focus in order to develop a feasible strategy for creating, implementing and maintaining small business goals.

**FT 0433 Social Justice and Diversity in Professional Practice****3 Credits**

Students examine professional practice with individuals, couples and families from diverse ethnic, cultural, racial, religious and socioeconomic backgrounds with a focus on issues of diversity, social justice, power, privilege and underserved communities, in accordance with Key Element IV-B and Foundational Curriculum Area (FCA) 3 of the accreditation standards set forth by the American Association for Marriage and Family Therapy Education (COMAFTE). The course addresses the issues of gender role stereotyping and changing sex roles, and integrates professional contributions from the professional literature.

<b>FT 0447 Lifespan Human Development</b>	<b>3 Credits</b>	<b>FT 0553 Family Therapy Pre-Practicum</b>	<b>3 Credits</b>
This course explores the processes of individual and family development from childhood through old age. Presenting theoretical perspectives for studying child, adult, and family development, the course examines the modifications of family structures over time and psycho-social development within family systems and cultural contexts. Crosslisted with CN 0447.		<b>Prerequisites:</b> FT 0433, FT 0550, FT 0552.	
<b>FT 0450 Techniques of Narrative and Solution-Focused Therapy</b>	<b>3 Credits</b>	Taken after FT 0552 and with the approval of the clinical director, this course provides simulated experiences in the practice of family therapy and focuses on developing skills in joining and forming a therapeutic relationship, designing and implementing interventions, and the use of self at the various stages of therapy. The course emphasizes the structural, strategic, and systemic family therapy models and addresses culturally sensitive practice, management, and treatment of cases of suicide, child abuse, domestic violence, and incest. Successful completion of this course and the requirements determines readiness for clinical practice. Candidates must have a signed clinical training agreement on file before registration.	
<b>FT 0450 Techniques of Narrative and Solution-Focused Therapy</b>	<b>3 Credits</b>	<b>FT 0555 Foundations of Marital and Family Therapy</b>	<b>3 Credits</b>
<b>Prerequisite:</b> FT 0559.		This course exposes candidates to the theories upon which the models of family therapy are based, exploring the critical epistemological issues in family therapy theory. Furthermore, it helps candidates think about therapy theoretically applying systems theory to an understanding of the variety of contexts in which marriage and family therapists work, including mental health systems, medical systems, etc. The course prepares candidates to understand and contribute to current thinking in the field in regard to theory and practice. Topics include general systems theory, cybernetics, communication theory, constructivism, and current developments in epistemology.	
<b>FT 0465 Introduction to Substance Abuse and Addictions</b>	<b>3 Credits</b>	<b>FT 0556 Research in Marriage and Family Therapy</b>	<b>3 Credits</b>
Candidates explore basic information about the history and current use/abuse of various drugs and alcohol. Topics include addiction, the 12-step programs, physiological effects, FAS, COAs, and family systems as well as culturally relevant prevention, intervention, and treatment strategies for individuals and families. Crosslisted with CN 0465.		This course covers the methodology, design, and statistical procedures for research in marriage and family therapy. The course addresses selecting appropriate experimental designs, data analysis and understanding the inferential potential of statistical procedures, and evaluating published research, including efficacy and outcome studies in marriage and family therapy. The course content includes quantitative and qualitative research in the field with recognition of cultural factors in research design and methodology.	
<b>FT 0470 Professional Practice with LGBTQ Youth and Families</b>	<b>3 Credits</b>	<b>FT 0559 Practicum in Family Therapy I</b>	<b>3 Credits</b>
This course is designed to expand candidates' multicultural competence when working with lesbian, gay, bisexual, transgender, and queer (LGBTQ) individuals, couples, and families in educational and mental health settings. Topics include identity development, political and historical context, minority stress theory, ethical issues, and guidelines for best practice in marriage and family therapy, counseling, psychology, and educational contexts.		<b>Prerequisites:</b> FT 0553, FT 0565.	
<b>FT 0525 Divorce, Single-Parenting, and Remarriage</b>	<b>3 Credits</b>	This course provides clinical experience working with families and meets the standards for training established by the American Association for Marriage and Family Therapy and the Connecticut Department of Health and Addiction Services. Candidates provide five hours per week of service in the Koslow Center plus five to 10 hours per week of service in a community agency offering family therapy treatment under supervision. This practicum follows consecutively after FT 0553.	
<b>FT 0550 Introduction to Marriage and Family Therapy</b>	<b>3 Credits</b>	<b>FT 0560 Practicum in Family Therapy II</b>	<b>3 Credits</b>
This course provides an overview of the historical development of the field of family therapy, acquainting candidates with the models developed by Minuchin, Haley, Madanes, Satir, Bowen, Whitaker, and others. The course focuses on distinguishing between the systemic approaches in terms of assessment, conceptualization, diagnosis, treatment, and theoretical foundations, and explores contemporary directions of the field.		<b>Prerequisite:</b> FT 0559.	
<b>FT 0552 Intervention in Structural and Strategic Family Therapy</b>	<b>3 Credits</b>	This course is a continuation of FT 0559.	
<b>Prerequisite:</b> FT 0550.		<b>FT 0561 Advanced Interventions in Family Therapy</b>	<b>3 Credits</b>
This course focuses on the models of Minuchin, Haley, Madanes, and MRI, with an emphasis on developing a substantive understanding of diagnosis, assessment, and intervention design. The course addresses the range of techniques associated with each orientation, indications and contra-indications for using specific techniques, rationale development for intervention, and the role of the therapist.		<b>Prerequisites:</b> FT 0559.	
		This course explores in depth the theory and techniques of Bowen Family Systems Theory. It focuses on developing a substantive understanding of the theoretical assumptions and clinical applications of Bowen theory and emphasizes self-of-therapist processes as central to effective practice of Bowen therapy.	

<b>FT 0565 Ethical, Legal, and Professional Issues in Family Therapy</b>	<b>3 Credits</b>	<b>FT 0580 Internship in Family Therapy I</b>	<b>3 Credits</b>
<b>Prerequisite:</b> FT 0550.		<b>Prerequisite:</b> FT 0560.	
This course examines issues specific to the clinical practice and profession of marriage and family therapy. Areas of study include ethical decision-making and the code of ethics; professional socialization and the role of professional organizations; licensure and certification; legal responsibilities and liabilities of clinical practice; research, family law, confidentiality issues, AAMFT Code of Ethics, interprofessional cooperation, and mental health care delivery systems.		During internship candidates provide 10 to 15 hours of clinical services at an off-campus internship site. They receive weekly individual and group supervision by an approved site supervisor and weekly group supervision by University faculty.	
<b>FT 0566 Substance Abuse and the Family</b>	<b>3 Credits</b>	<b>FT 0581 Internship in Family Therapy II</b>	<b>3 Credits</b>
<b>Prerequisite:</b> FT 0465.		<b>Prerequisite:</b> FT 0580.	
This course brings together substance abuse studies and family systems approaches. Students are presented with a knowledge base of skills and methods for assessing and treating family systems. The course identifies the addictive and intergenerational patterns within families. Students are encouraged to reflect upon the theoretical frameworks to understand and create interventions for alcoholic and substance-abusing family systems. Relational clinical models including developmental, systemic, solution-focused, and narrative approaches are reviewed and evaluated. The course examines the history and methods of treatment models. Issues of social justice are emphasized in a review of socio-cultural and social policy that influence family behaviors and treatment. Crosslisted with CN 0565.		This course is a continuation of FT 0580. Candidates must complete all clinical and supervisory hours by the close of the grading period to be eligible for graduation.	
<b>FT 0567 Couples Therapy</b>	<b>3 Credits</b>	<b>FT 0582 Continuing Internship in Family Therapy</b>	<b>1 Credit</b>
<b>Prerequisite:</b> FT 0553.		<b>FT 0595 Independent Study</b>	<b>3-6 Credits</b>
This course examines couple relationships including issues of intimacy and sexuality throughout the lifespan. The focus is on understanding, conceptualizing, and treating couple relationships across sexual orientations and partnership types. The course addresses assessment and intervention in critical cases as well as treatment of common presenting problems such as infertility, childrearing conflict, infidelity, domestic violence and chronic health issues. The course also covers sexual dysfunction as it occurs in each phase of the couple relationship. Students learn methods for biopsychosocial assessment and diagnosis and develop ethically informed treatment formulations using systemic models of therapy.		Candidates undertake individual projects in consultation with a faculty member based on proposals submitted one semester in advance of course registration.	
<b>FT 0568 Special Topics in Family Therapy (Shell)</b>	<b>1-3 Credits</b>	<b>FT 0598 Master's Thesis in Marriage and Family Therapy</b>	<b>3 Credits</b>
This course explores advanced topics in the field of family therapy. Topics may vary each semester and are determined by the marriage and family therapy faculty as a reflection of pertinent themes of interest in the field.		<b>Prerequisite:</b> FT 0556.	
<b>FT 0569 Assessment Techniques in Marriage and Family Therapy</b>	<b>3 Credits</b>	This elective seminar is for candidates wishing to conduct original research in the field of family therapy or family science. The thesis is expected to make a scholarly contribution to the field. Credit for this course is contingent upon approval of the completed thesis. Prior to beginning this course, candidates must consult with their advisor and complete the prerequisite steps, including the preparation and acceptance of a thesis proposal.	
<b>FT 0570 School-Based Practicum in Marriage and Family Therapy</b>	<b>3 Credits</b>	<b>Film, Television, and Media Arts (FTM)</b>	
This course is a requirement in the Area of Specialization in School Marriage and Family Therapy and provides an opportunity for candidates to apply theory to practice in the context of the public school system. The practicum is an advanced level clinical experience that is specifically designed to meet the requirements established by the Connecticut State Board of Education for certification in School Marriage and Family Therapy. Enrollment by permission only.		<b>FTM 0010 Introduction to Film Studies</b>	<b>3 Credits</b>
		<b>Attributes:</b> ENPC Digital Journalism Production Component, VPCH Visual and Performing Arts Core: History Course	
		<b>Fee:</b> \$60 Materials Fee	
		This course explores the fundamentals of film form (including narrative modes, visual design, performance styles, editing, and sound design), and the relationship between a film's style and its overall meaning. By learning how to "read" film as a text and utilize sophisticated cinematic language, you will begin to critically understand film as both an art form and a product of culture. Each week's meetings will include lecture, discussion, and a separate, dedicated screening of a feature film.	
		<b>FTM 0011 Introduction to Film and Video Production</b>	<b>3 Credits</b>
		<b>Attributes:</b> ENPC Digital Journalism Production Component, VPC2 Visual and Performing Arts Core: Applied Course	
		This course introduces and familiarizes students with all the production tools of the Film, Television, and Media Arts program, including: cameras; lighting instruments and grip equipment packages; audio equipment, including microphones, audio recorders, mixers, windscreens, etc.	
		Each class consists of two parts – an instruction and discussion of the theoretical elements of the class topics, and a hands-on demonstration of the theory just presented. The course features multiple practicum assignments designed to provide a thorough learning experience and to illustrate camera, lighting and audio theory.	

**FTM 0090 Production Practicum in Film, Television, and Media****Arts****1 Credit**

Film, Television, and Media Arts majors must take this course for at least one semester during each of their freshman, sophomore and junior years. They will participate in a variety of film, television or radio productions beyond those assigned within individual courses, including: regular programs on the Ham Channel or WVOF; independent student films; student TV broadcasts of annual campus events; Media Center productions or broadcasts; or senior capstone projects. Enrollment by permission only.

**FTM 0101 American Cinema: History and Analysis****3 Credits**

**Attributes:** ASGW American Studies: Gateway, GDFT Graphic Design: Film and Television, VPCH Visual and Performing Arts Core: History Course American cinema has evolved from its origins as a technological novelty at the end of the 19th century to become a key component of a multibillion-dollar industry that profoundly influences popular culture in the United States and around the world. This course examines important American films of the past 100 years and the technological, economic, and cultural developments that have influenced their creation, along with the theoretical concepts necessary for their analysis.

**FTM 0102 American Television: History and Analysis****3 Credits**

**Attributes:** ASGW American Studies: Gateway, GDFT Graphic Design: Film and Television, VPCH Visual and Performing Arts Core: History Course An introduction to the study of television in the United States, this course reviews the historical roots of television content and technology and its relationship to radio and film, and its evolution new media platforms. Students examine the evolution of the many program types found in broadcast and cable television, explore their narrative conventions, and define criteria for analyzing story, structure, formats, performance, and production values.

**FTM 0103 World Cinema****3 Credits**

**Attributes:** ENDE Digital Journalism Elective, GDFT Graphic Design: Film and Television, VPCH Visual and Performing Arts Core: History Course This course surveys the development of world cinema with a particular emphasis on its canonical texts. We will examine the cinematic medium in its various global, cultural, and social contexts by studying key film movements and styles, including German Expressionism, Soviet Montage, Italian Neo-Realism, various "new wave" cinemas, and certain global film movements. We will also study the development of popular national genres and evaluate the relationship between art, commerce, and taste as it pertains to the distribution and U.S. reception of world cinema. Students will gain factual knowledge and learn to analyze and critically evaluate points of view that may not be their own.

**FTM 0104 Documentary Cinema****3 Credits**

**Attributes:** GDFT Graphic Design: Film and Television, VPCH Visual and Performing Arts Core: History Course

This course surveys the historical, political, social and cultural significance of non-fiction (documentary) storytelling traditions in the U.S. and abroad. Students will study canonical and independently produced documentaries directed by domestic and international filmmakers to deepen their overall understanding of the technological and aesthetic contributions that national cinemas have contributed to nonfiction filmmaking. Major themes to be discussed are tradition vs. modernization, colonialism, religion, cross cultural relationships, class, gender, ethnicity, nationalism, the human condition, hegemony, and displacement. Students will gain factual knowledge and learn to analyze and critically evaluate points of view that may not be their own.

**FTM 0108 Sports Broadcasting and Remote Television****Production****3 Credits**

**Attributes:** ENPC Digital Journalism Production Component, VPCH Visual and Performing Arts Core: History Course

This course introduces students to the principles and practice of the world of sports broadcasting. Topics include the history of the industry, its developing techniques, the aesthetic and narrative structure of television sportscasting, its economic impact on the industry, media law and ethics applied to the sports world, and its significant place within the general broadcast world.

**FTM 0120 Beginning Screenwriting for Film and Television****3 Credits**

**Attributes:** VPC2 Visual and Performing Arts Core: Applied Course

This beginning course introduces students to screenwriting by developing their understanding of visual storytelling for short documentary films, fiction films, and the television sitcom. The main goal of the course is to develop creative capacities in storytelling and creative written expression while introducing students to fundamental principles of conventional fiction and non-fiction screenwriting. This course utilizes lecture, discussion, screenings, readings, and reflective essay writing to grapple with issues of narrative structure, characterization, conflict, aesthetics, and the politics and ethics of writing as well as other related topics. Students will participate in regular writing workshops in which fellow classmates will respond to their work.

**FTM 0130 Nonlinear Editing for Film and Television****3 Credits**

**Fee:** \$60 Materials Fee

**Prerequisites:** FTM 0010, FTM 0011.

This course examines the technical and theoretical conventions of film and video editing that have emerged during more than one hundred years of motion picture and television history. Through readings, discussions and lectures, as well as editing assignments, students will explore how to make meaning through the assembly of images and sound. Students will also gain experience with post-production software, including Adobe Premiere Pro, Adobe Audition, and DaVinci Resolve.

**FTM 0131 Intermediate Film Production****3 Credits**

**Prerequisites:** FTM 0010, FTM 0011.

This course introduces FTM majors to the major elements and principles of film, television and media production, and its three stages of preproduction, production, and post-production. Each student authors and collaboratively produces short narrative, documentary, and experimental pieces on a common theme.

**FTM 0201 Filmmaker Studies (Shell)****3 Credits**

Each semester that it is offered, this course takes up the study of one or more individual filmmakers - primarily directors - and surveys that person's (or pairs' or group's) body of work, examining major themes, techniques, motifs, topics, collaborations. In so doing, it seeks to measure and evaluate his or her contribution to the history and craft of film. Filmmakers have included Alfred Hitchcock, Clint Eastwood, Quentin Tarantino, Women Directors, and Ang Lee. May be taken twice.

**FTM 0201A Filmmaker Studies: Women Directors****3 Credits**

**Attributes:** ASVP American Studies: Visual and Performing Arts, GDFT Graphic Design: Film and Television, VPCH Visual and Performing Arts Core: History Course, WSGF Women, Gender, and Sexuality Studies: Gender Focused

**FTM 0201B Filmmaker Studies: Italian Cinema****3 Credits**

**Attributes:** ASVP American Studies: Visual and Performing Arts, CAOT Catholic Studies: Non-Religious Studies, E\_AF English Literature After 1800, GDFT Graphic Design: Film and Television, ISIF Italian Studies: Italy-Focused, ISIT Italian Studies: Italian, VPCH Visual and Performing Arts Core: History Course

This survey of Italian films as textual, cultural, and historical artifacts analyzes movements such as neorealism, commedia all'italiana, the spaghetti western, and new Italian cinema through the works of selected directors. The course follows a chronology from the silent period to present day, with special emphasis on the "golden ages" of Italian cinema, neo-realism of the postwar period, the 1960s' comedy of manners, and the new Italian cinema of the '80s and '90s. Students analyze the works of Rossellini, De Sica, Fellini, Visconti, Germi, Antonioni, Wertmüller, Leone, Pasolini, Moretti, Benigni, and others.

**FTM 0201C Filmmaker Studies: Hitchcock****3 Credits**

**Attributes:** VPCH Visual and Performing Arts Core: History Course This course will examine questions of cinematic authorship through one of the medium's most influential figures: Alfred Hitchcock. We will trace Hitchcock's formal and thematic development across major films from the 1940s, 1950s, and 1960s and then place this body of work in dialogue with filmmakers such as Michael Powell, Luis Buñuel, Roman Polanski, Brian De Palma, Chantal Akerman, Bette Gordon, and more. Themes relating to voyeurism, psychosis, perversion, surveillance, paranoia, gender, and sexuality will feature prominently. In addition to gaining insight into authorship and the workings of the cinematic apparatus more generally, students will also develop proficiency with frameworks for critical analysis, including genre, ideology, form, psychoanalysis, feminist critique, and queer theory, among others.

**FTM 0204 African American Cinema****3 Credits**

**Attributes:** ASUP American Studies Upper Level, BSAH Black Studies: Arts and Humanities, BSFC Black Studies Focus Course, GDFT Graphic Design: Film and Television, UDIV U.S. Diversity, VPCH Visual and Performing Arts Core: History Course

**Prerequisite:** FTM 0010.

This course explores the historical, social and cultural significance of African American cinema from the silent era until present-day. Students will grapple with issues concerning the politics of representation of people of African descent in the American film industry and deepen their overall understanding of ways that African American filmmakers have achieved artistry and expression in spite of obstacles posed by race, class, and gender. Through regular screenings, readings, and presentations students will deepen their overall understanding of the impact of historical events and key filmic technological advancements on the establishment of the separate and unequal African American film industry.

**FTM 0205 Survey of Film Music: Hearing the Movies****3 Credits**

**Attributes:** VPCH Visual and Performing Arts Core: History Course

**Prerequisite:** FTM 0010 or MU 0103 or MU 0104.

This course provides an overview of film music from 1900 to today. Students investigate the defining characteristics of the major historical periods of film music; explore the social and historical events that shaped the industry; learn to actively listen to a score; and discuss salient features of a given score. The object in this course is to develop skills in analyzing the sound track, music's role in the sound track, and the relation of sound track and image track on small-scale and large-scale (narrative) levels. The course develops critical listening and viewing skills as well as a film-music historical survey.

**FTM 0206 American Film: Decades (Shell)****3 Credits**

**Attributes:** VPCH Visual and Performing Arts Core: History Course, WDIV World Diversity

**Prerequisite:** FTM 0010.

This course examines the use of film form (e.g., cinematography, editing, sound design) in American movies made during a given 10-year period, as well as the social, cultural, historical and ideological contexts of the era in which they were made. Each iteration of the course is organized around particular themes relevant to the decade under discussion, e.g. "1970s - Rebels with Causes." See FTM 0206A, FTM 0206B, FTM 0206C, FTM 0206D, FTM 0206E.

**FTM 0206A American Films: Decades: 1950s****3 Credits**

**Attributes:** VPCH Visual and Performing Arts Core: History Course

**FTM 0206B American Films: Decades: 1960s****3 Credits**

**Attributes:** VPCH Visual and Performing Arts Core: History Course

You Say You Want A Revolution: Radical 60s in American Film. The 1960s began as a reaction to the bland conservatism of the 1950s. Revolution was in the air: political, cultural, sexual. The 60s were shocked and rocked by assassinations, war, and domestic upheaval. The Beatles made art out of pop music, and millions of young people decided to "make love, not war." A bewildering array of new words and phrases entered the national vocabulary: pop art, folk-rock, heavy metal, hippies, "freaks," "pigs," happenings, sit-ins, counter culture, commune, psychedelic, Vietnam, Woodstock, Black Panthers, defoliation, body-bag, mini-skirt, the Pill, LSD, and M.A.D (Mutually Assured Destruction). The Age was Aquarius, the Medium was the Message, and the message was "Turn on, tune in, and drop out." Old Hollywood died in the 1960s, and the MPAA ratings were born. It remained to be seen how American films would respond to the times...

**FTM 0206C American Films: Decades: 1970s****3 Credits**

**Attributes:** VPCH Visual and Performing Arts Core: History Course

**FTM 0206D American Films: Decades: 1980s****3 Credits**

**Attributes:** VPCH Visual and Performing Arts Core: History Course

**FTM 0206E American Films: Decades: 1990s****3 Credits**

**Attributes:** VPCH Visual and Performing Arts Core: History Course

**FTM 0207 Film Genres (Shell)****3 Credits**

**Prerequisite:** FTM 0010.

Genres are categories of film characterized by recognizable conventions that include settings, stock characters, narrative patterns, stylistic devices, historical contexts, and themes. Genres interact with filmmakers' and audiences' shared expectations and evolve over time. Each iteration of this course examines a specific genre (e.g. the Western, Horror, Science Fiction, etc.) and evaluates it in terms of film form and its own evolving set of conventions. See FTM 0207A, FTM 0207B, FTM 0207C, FTM 0207D, FTM 0207E, FTM 0207F, FTM 0207G, FTM 0207H, FTM 0207I.

**FTM 0207A Film Genres: Classic Comedy****3 Credits**

**Attributes:** VPCH Visual and Performing Arts Core: History Course

**FTM 0207B Film Genres: Cult Cinema****3 Credits**

**Attributes:** VPCH Visual and Performing Arts Core: History Course

**FTM 0207C Film Genres: Disaster/Apocalypse****3 Credits**

**Attributes:** VPCH Visual and Performing Arts Core: History Course

**FTM 0207D Film Genres: Film Noir****3 Credits**

**Attributes:** VPCH Visual and Performing Arts Core: History Course

**FTM 0207E Film Genres: Hollywood Musical****3 Credits**

**Attributes:** VPCH Visual and Performing Arts Core: History Course

<b>FTM 0207F Film Genres: Horror</b>	<b>3 Credits</b>	<b>FTM 0230 Lighting and Cinematography</b>	<b>3 Credits</b>
<b>Attributes:</b> VPCH Visual and Performing Arts Core: History Course		<b>Attributes:</b> VPC2 Visual and Performing Arts Core: Applied Course	
<b>FTM 0207G Film Genres: Independent Film</b>	<b>3 Credits</b>	<b>Prerequisites:</b> FTM 0010, FTM 0011, FTM 0131.	
<b>Attributes:</b> VPCH Visual and Performing Arts Core: History Course		This advanced motion picture production course focuses on the production of narrative fiction films. Students study and practice advanced techniques of film production- including preproduction, production and postproduction responsibilities of the producer relating to management, financing, contracts, distribution and other business elements of filmmaking. Students in the class collaborate to produce significantly more complex narrative films with more advanced camera, lighting, audio, and editing equipment.	
<b>FTM 0207H Film Genres: Science Fiction</b>	<b>3 Credits</b>		
<b>Attributes:</b> VPCH Visual and Performing Arts Core: History Course			
<b>FTM 0207I Film Genres: The Western</b>	<b>3 Credits</b>	<b>FTM 0231 Documentary and Experimental Film Production</b>	<b>3 Credits</b>
<b>Attributes:</b> VPCH Visual and Performing Arts Core: History Course		<b>Attributes:</b> VPC2 Visual and Performing Arts Core: Applied Course	
<b>FTM 0208 Television Genres (Shell)</b>	<b>3 Credits</b>	<b>Fee:</b> \$60 Materials Fee	
<b>Prerequisite:</b> FTM 0010.		<b>Prerequisite:</b> FTM 0131.	
Basic to understanding television as an art form is the concept of genre. This course introduces students to the defining characteristics and the critical analysis of television genre. On a rotating basis, the course focuses on drama, serial, situation comedy, news and documentary, and reality television, examining distinct conception, writing, production, directing, editing and other conventions of each. Social and historical elements of the genre are also addressed. See FTM 0208A, FTM 0208B, FTM 0208C, FTM 0208D, FTM 0208E.		This course is designed to develop skills and critical perspectives needed to produce documentary work that promote social activism and awareness. Through lectures, discussions, screenings, readings, and hands-on demonstrations, students will learn about pre-production, production, and post-production for documentary work. By the end of the semester students will write, produce, direct, and edit short documentaries focusing on social issues. By periodically presenting their own work, students will engage one another in discussions sharing constructive criticism concerning individual projects.	
<b>FTM 0208A TV Genres: Comedy</b>	<b>3 Credits</b>	<b>FTM 0232 Studio Television Production</b>	<b>3 Credits</b>
<b>Attributes:</b> VPCH Visual and Performing Arts Core: History Course		<b>Attributes:</b> ENPC Digital Journalism Production Component, VPC2 Visual and Performing Arts Core: Applied Course	
<b>FTM 0208B TV Genres: Contemporary Drama</b>	<b>3 Credits</b>	<b>Prerequisites:</b> FTM 0010, FTM 0011, FTM 0131.	
<b>Attributes:</b> VPCH Visual and Performing Arts Core: History Course		This course offers a theoretical and hands-on introduction to the art and technology of television production within a studio context. Students receive instruction on the creative and aesthetic use of the elements and technology of studio television production - cameras, audio, lighting, editing, set design, and program development - and participate in a series of projects completed individually and as part of a team.	
<b>FTM 0208C TV Genres: Crime Dramas</b>	<b>3 Credits</b>	<b>FTM 0234 Directing for Film, Television, and Media</b>	<b>3 Credits</b>
<b>Attributes:</b> VPCH Visual and Performing Arts Core: History Course		<b>Attributes:</b> VPC2 Visual and Performing Arts Core: Applied Course	
<b>FTM 0208D TV Genres: Reality TV</b>	<b>3 Credits</b>	<b>Prerequisites:</b> FTM 0010, FTM 0011, FTM 0131.	
<b>Attributes:</b> VPCH Visual and Performing Arts Core: History Course		This course explores what a film director does, how he/she manipulates and manages the divergent elements of cinema into a coherent whole, and often, into a unique and personal vision. The specific tasks of a director related to her/his role with crew and with actors, and in the development of a film from start to finish, are studied from practical and theoretical perspectives.	
<b>FTM 0208E TV Genres: Sitcoms</b>	<b>3 Credits</b>	<b>FTM 0235 Digital Motion Graphics</b>	<b>3 Credits</b>
<b>Attributes:</b> VPCH Visual and Performing Arts Core: History Course		<b>Attributes:</b> VPC2 Visual and Performing Arts Core: Applied Course	
<b>FTM 0209 Gender, Sexuality, and Cinema</b>	<b>3 Credits</b>	<b>Fee:</b> \$60 Materials Fee	
<b>Attributes:</b> VPCH Visual and Performing Arts Core: History Course, WSGF Women, Gender, and Sexuality Studies: Gender Focused		<b>Prerequisite:</b> FTM 0010.	
<b>Prerequisite:</b> FTM 0010.		The digital revolution has arrived for production of television and video. This course introduces the theory and basics of digital graphic design and editing, incorporating three-dimensional graphics, music, and sound effects. Students master nonlinear programs and technology such as Final Cut Pro, Avid, Photoshop, Flash, and Dreamweaver.	
<b>FTM 0210 Special Topics (Shell)</b>	<b>3 Credits</b>		
<b>Attributes:</b> VPCH Visual and Performing Arts Core: History Course			
These courses, offered periodically, focus in depth on a specific theme or issue, and may draw upon films from one or more countries, from among numerous directors, and from various periods in film history from the dawn of cinema to the present. Special applied courses may also be offered in this category. May be taken twice.			
<b>FTM 0220 Intermediate Screenwriting</b>	<b>3 Credits</b>		
<b>Attributes:</b> VPC2 Visual and Performing Arts Core: Applied Course			
<b>Prerequisite:</b> FTM 0120.			
Writing a feature film script can be one of the most difficult and daunting tasks for a writer/filmmaker, yet it remains the dominant format in filmmaking practice. This class builds upon the foundation of FTM 0120, expanding upon the narrative techniques at play in short films and applying them to the roughly 90 page format. The majority of this class is structured like a writers room/group, where students write, write, write and foster a collaborative environment where they share, critique and develop script ideas.			

**FTM 0236 Digital Audio Workstation****3 Credits****Attributes:** VPC2 Visual and Performing Arts Core: Applied Course**Prerequisite:** FTM 0011, FTM 0130; or MU 0150 or MU 0156.

This course will provide the student with an in-depth knowledge of the practical application of the Digital Audio Workstation (DAW). This course is primarily designed for students interested in audio editing as it applies to producing recordings, creating sound effects, and soundtrack design for film/TV/radio. Creating samples, recording techniques, waveform manipulation, mixing, and the role of the Digital Audio Workstation in the overall process of sound design will be explored. Students will be proficient at using Logic Pro audio software to manipulate MIDI and audio. Students will learn how to record live sound effects from the environment and manipulate the recordings to create Foley sound effects, and apply them to a film segment. Students will learn to mix and master a segment of multi-track audio.

**FTM 0237 Acting for the Camera****3 Credits****Attributes:** VPC2 Visual and Performing Arts Core: Applied Course**Prerequisite:** TA 0030.

This course is an experiential introduction to the specialized techniques used in successful on-camera acting. On-camera exercises will emphasize the importance of listening, truthful moment-to-moment response, and effective communication skills. Students will practice their skills and apply their training to commercials, current television scripts, and screenplays. Initial classes examine the difference between acting for the stage and acting for the camera. Students will practice a variety of on-camera styles including comedy, crime drama, and commercials. The course builds towards longer scene work from a screenplay. Topics include script analysis, nuance and depth of performance, and relaxation and confidence on-camera.

**FTM 0305 Independent Study****1-3 Credits**

Usually open only to students majoring or minoring in Film, Television, and Media Arts with a concentration in film, this course allows a student to pursue in depth a topic or project in film or television or media arts history/theory or production, in close consultation with a faculty member of the Film, Television, and Media Arts program. Enrollment by permission of instructor only. May be taken twice.

**FTM 0306 Internship in Film, Television, and Media Arts****1-3 Credits**

In consultation with a faculty member, upper-level major and minor students arrange a semester-long internship with one of many film production companies located within Connecticut and the New York metropolitan area. The course combines on-site supervision and meetings with faculty advisors with weekly journal submissions and an assigned paper at the end of the internship. Enrollment by permission of instructor only. May be taken twice.

**FTM 0310 Capstone Seminar I****3 Credits****Prerequisite:** Completion of all other major requirements.

This course provides an opportunity for Film, Television, and Media Arts majors in their senior year to produce a creative work that pulls together the theoretical concepts and technical skills they have acquired during their years in the Program. This course is required for all Film, Television, and Media Arts majors, who must take it in the fall semester of their senior year. The capstone project is completed in FTM 0311 in the spring semester of a major's senior year.

**FTM 0311 Capstone Seminar II****3 Credits****Prerequisites:** FTM 0310.

This course provides an opportunity for Film, Television, and Media Arts majors in their senior year to produce a creative work that pulls together the theoretical concepts and technical skills they have acquired during their years in the Program. This course is required for all Film, Television, and Media Arts majors, who must take it in the spring semester of their senior year.

## **Finance (FI)**

**FI 0101 Introduction to Finance****3 Credits****Fee:** \$110 DSB Computer Lab Fee**Prerequisites:** AC 0011, EC 0011, EC 0012, one math course, sophomore standing.

This course provides the building blocks for understanding the role of finance in the domestic and international environments. Specifically, in a qualitative and quantitative manner, this course addresses the three interrelated fields of finance, namely: financial markets, investments, and business finance.

**FI 0190 Personal Finance****3 Credits**

This course for non-majors covers financial decision-making from a personal standpoint. The course examines investments including stocks, bonds, housing purchases, and mutual funds with an emphasis on the elementary financial principles of risk and return. Other topics include life, health, and other insurance needs, and pension and estate planning.

**FI 0200 Global Capital Markets****3 Credits****Prerequisites:** FI 0101, junior standing.

This course surveys a variety of financial instruments, institutions, and markets from a global perspective and covers the relationship between financial intermediaries and central banks. Students review the use of traditional and new financial instruments in the context of the specific markets they serve.

**FI 0210 Principles of Investment****3 Credits****Prerequisites:** FI 0101, junior standing.

This course offers a general view of the operation of security markets and the factors that influence security prices. Further, it includes basic analysis and valuation of stocks, bonds, options, and futures. The course also provides an introduction to the tools and techniques that can be used to measure performance, manage risk, and construct efficient portfolios.

**FI 0215 Financial Management****3 Credits****Prerequisites:** FI 0101, junior standing.

This course examines the role of financial managers in the context of the firm. The course covers the theory and operationalization of the major financial decisions faced by financial managers. Major topics include optimal financial decision-making, capital budgeting, financing, and cash distribution decisions within the framework of firm value maximization.

**FI 0240 International Finance****3 Credits****Prerequisites:** FI 0215, junior standing.

This course deals with the international aspects of corporate finance. Topics include foreign exchange with emphasis on exchange rate determination, exchange rate risk management, international money and capital markets, international capital budgeting, cost of capital, and international trade financing.

<b>FI 0300 Seminar in Fixed Income</b>	<b>3 Credits</b>	<b>FI 0391 Internship</b>	<b>3-4 Credits</b>
<b>Prerequisite:</b> FI 0210 or FI 0215.		<b>Prerequisite:</b> Junior standing.	
This course provides an in depth analysis of fixed income securities and markets. The primary focus of the course is the analysis and valuation of fixed income securities. The course also provides an overview of fixed income markets and an introduction to fixed income portfolio management. Topics to be discussed include interest rate exposure (duration and convexity), credit risk analysis, hedging with swaps and futures, and the term and credit structure of interest rates.		Students may take up to two semesters of a department-approved internship. Students must have a GPA of 2.5 or higher.	
<b>FI 0305 Financial Trading and Strategic Simulations</b>	<b>3 Credits</b>	<b>FI 0392 Internship</b>	<b>3 Credits</b>
<b>Attributes:</b> BUEL Business Elective, FIEL Finance Elective		<b>Prerequisite:</b> Junior standing.	
<b>Prerequisites:</b> FI 0210, FI 0215.		Students may take up to two semesters of a department-approved internship. Students must have a GPA of 2.5 or higher.	
In this course, students will be introduced to the forces at work that create a market for various types of financial securities. The emphasis of the course will be to understand the microstructure of financial markets and to investigate the risks and returns of various trading strategies. Students who complete the course satisfactorily will be able to design and execute trading strategies with a firm understanding of their potential outcomes.		<b>FI 0393 Internship</b>	<b>1 Credit</b>
<b>FI 0310 Portfolio Analysis</b>	<b>3 Credits</b>	<b>Prerequisite:</b> Junior standing.	
<b>Prerequisites:</b> FI 0210, junior standing.		Students may take up to two semesters of a department-approved internship. Students must have a GPA of 2.5 or higher.	
This course deals with the principles and applications of modern portfolio theory from the point of view of both the institutional and the individual investor. More specifically, the course analyzes portfolio objectives, efficient portfolio construction, performance evaluation, and portfolio risk management using derivatives.		<b>FI 0394 Internship</b>	<b>1 Credit</b>
<b>FI 0315 Futures and Options Markets</b>	<b>3 Credits</b>	<b>Prerequisite:</b> Junior standing.	
<b>Prerequisites:</b> FI 0210, junior standing.		Students may take up to two semesters of a department-approved internship. Students must have a GPA of 2.5 or higher.	
This course deals with options and futures on financial assets, as well as commodities. The course covers the basic uses of these instruments and the various pricing methodologies based on equilibrium conditions.		<b>FI 0397 Seminar in Finance</b>	<b>3 or 6 Credits</b>
<b>FI 0320 Financial Modeling</b>	<b>3 Credits</b>	<b>Attributes:</b> FIEL Finance Elective	
<b>Prerequisites:</b> FI 0210 or FI 0215; junior standing.		<b>Prerequisites:</b> FI 0210, FI 0215; Senior standing.	
In this course, students will build financial models in a spreadsheet environment. Emphasis is placed on the use of financial models to conduct quantitative analysis and aid in decision making using advanced spreadsheet analytical tools and commands including simulation. The modeling assignments cover a wide range of topics in corporate finance and investment topics. The course requires group work and a final project.		This is a special program that involves contemporary or specialized topics in finance and may be offered as an independent study format under faculty guidance. Students must have a GPA of 2.5 or higher. Finance majors only.	
<b>FI 0325 Seminar in Real Estate</b>	<b>3 Credits</b>	<b>FI 0398 Seminar in Finance</b>	<b>3 or 6 Credits</b>
<b>Attributes:</b> FIEL Finance Elective		<b>Prerequisites:</b> FI 0210, FI 0215; Senior standing.	
<b>Prerequisites:</b> FI 0210 or FI 0215; junior or senior standing.		This is a special program that involves contemporary or specialized topics in finance and may be offered as an independent study format under faculty guidance. Students must have a GPA of 2.5 or higher. Finance majors only.	
This course provides an in depth analysis of real estate debt and equity markets. Both primary and secondary markets will be studied. The course will cover the following topics: analysis of real estate markets; valuation of residential and commercial real estate; investment and financing of residential and commercial real estate property; application of financial mathematics to the calculation of payment streams, outstanding loan balances, equity returns and other basic financial measurements; secondary mortgage market securitization and the market for residential and commercial mortgage backed securities; Real Estate Investment Trusts.		<b>FI 0400 Principles of Finance</b>	<b>3 Credits</b>
<b>FI 0330 Case Studies in Finance</b>	<b>3 Credits</b>	<b>Prerequisites:</b> AC 0400; QA 0400.	
<b>Prerequisites:</b> FI 0210, FI 0215, senior standing.		This course examines the fundamental principles of modern finance that are helpful in understanding corporate finance, investments, and financial markets. More specifically, the course examines the time value of money; the functioning of capital markets; valuation of stocks, bonds, and corporate investments; risk measurement; and risk management. Students learn to use sources of financial data and spreadsheets to solve financial problems.	
This course examines and applies the principles developed in financial management and investments in a domestic and international context with the objective of integrating finance practice and theory using case studies.		<b>FI 0500 Shareholder Value</b>	<b>3 Credits</b>
<b>Prerequisite:</b> FI 0400.		<b>Prerequisite:</b> FI 0400.	
		This course examines business decision-making with the aim of creating and managing value for shareholders. Accordingly, students learn how to lead and manage a business in a competitive environment. This involves the formulation of corporate objectives and strategies, operational planning, and integration of various business functions leading to greater shareholder value. Topics include investment and strategic financial decision-making. A business simulation facilitates the learning process.	
		<b>FI 0530 Corporate Finance</b>	<b>3 Credits</b>
		This course provides an exploration of theoretical and empirical literature on corporate financial policies and strategies. More specifically, the course deals with corporate investment decisions, capital budgeting under uncertainty, capital structure and the cost of capital, dividends and stock repurchases, mergers and acquisitions, equity carve-outs, spin-offs, and risk management.	
		<b>FI 0540 Investment Analysis</b>	<b>3 Credits</b>
		This course examines the determinants of valuation for bonds, stocks, options, and futures, stressing the function of efficient capital markets in developing the risk-return tradeoffs essential to the valuation process.	

**FI 0545 Portfolio Management****3 Credits****Prerequisite:** FI 0540.

Students examine how individuals and firms allocate and finance their resources between risky and risk-free assets to maximize utility. Students use an overall model that provides the sense that the portfolio process is dynamic as well as adaptive. Topics include portfolio planning, investment analysis, and portfolio selection, evaluation, and revision.

**FI 0555 International Financial Management****3 Credits****Prerequisite:** FI 0530.

The globalization of international financial markets presents international investors and multinational corporations with new challenges regarding opportunities and risks. This course examines the international financial environment of investments and corporate finance, evaluating the alternatives available to market participants in terms of risk and benefits. Topics include exchange rate determination, exchange rate exposure, basic financial equilibrium relationships, risk management including the use of currency options and futures, international capital budgeting and cost of capital, and short-term and international trade financing.

**FI 0560 Global Financial Markets and Institutions****3 Credits****Prerequisite:** FI 0540.

This course examines financial markets in the context of their function in the economic system. The material deals with the complexity of the financial markets and the variety of financial institutions that have developed, stressing the dynamic nature of the financial world, which is continually evolving.

**FI 0565 Derivative Securities****3 Credits****Prerequisite:** FI 0540.

This course offers in-depth coverage of financial derivative securities, such as options futures and swaps. The course focuses on the principles that govern the pricing of these securities as well as their uses in hedging, speculation, and arbitrage activities.

**FI 0570 Fixed Income Securities****3 Credits****Prerequisite:** FI 0540.

This course deals extensively with the analysis and management of fixed income securities, which constitute almost two-thirds of the market value of all outstanding securities. The course provides an analysis of treasury and agency securities, corporate bonds, international bonds, mortgage-backed securities, and related derivatives. More specifically, this course provides an in-depth analysis of fixed income investment characteristics, modern valuation, and portfolio strategies.

**FI 0575 Capital Budgeting****3 Credits****Prerequisite:** FI 0530.

This course examines the decision methods employed in long-term asset investment and capital budgeting policy. The course includes a study of quantitative methods used in the capital budgeting process: simulation, mixed integer programming, and goal programming. Students use these techniques and supporting computer software to address questions raised in case studies.

**FI 0580 Financial Risk Management****3 Credits****Prerequisite:** FI 0540.

This course focuses on the evaluation and management of corporate and portfolio risk. More specifically, this course examines the methods of evaluating and managing risk with the objective of contributing to value maximization. Risk assessment methodologies such as value-at-risk (VaR) and cash-flow-at-risk (Car) are analyzed and used extensively.

**FI 0585 Seminar: Contemporary Topics in Finance****3 Credits****Prerequisites:** FI 0530, FI 0540.

This course presents recent practitioner and academic literature in various areas of finance, including guest speakers where appropriate. Topics vary each semester to fit the interests of the seminar participants.

**FI 0585D Seminar: Contemporary Topics in Finance: Rotman Trading Competition****3 Credits****FI 0595 Research Methods in Finance****3 Credits****Prerequisite:** FI 0540.

This course, open to MS in Finance students only, deals extensively with applied research methods in finance, a highly empirical discipline with practical relevance in the models and theories used. The central role of risk distinguishes research methodology in finance from the methodology used in other social sciences, necessitating the creation of new methods of investigation that are adopted by the finance industry at an astonishingly fast rate. For example, methods of assessing stationarity and long-run equilibrium, as well as methods measuring uncertainty, found a home in the finance area. This course covers traditional and new research methods that are directly, and in most instances, solely applicable to finance problems.

**FI 0597 Independent Research Seminar****3 Credits****Prerequisite:** FI 0595.

This course, open to MS in Finance students only, provides participants with the opportunity to explore a financial topic of interest in depth, immersing students in detailed investigations requiring substantial research and analysis.

## French (FR)

**FR 0110 Elementary French I****3 Credits**

Designed for students with no prior experience with French or whose placement scores are in the range for this course level. This course, the first of a two-semester sequence, teaches the essentials of pronunciation, structure, and usage, allowing students to acquire the skills of listening, speaking, reading, and writing. Language cultures are explored through a variety of media. Students attend three classes per week and do mandatory online work determined by the instructor.

**FR 0111 Elementary French II****3 Credits****Prerequisite:** FR 0110.

This course, a continuation of FR 0110, teaches the essentials of pronunciation, structure, and usage, allowing students to acquire the skills of listening, speaking, reading, and writing. Language cultures are explored through a variety of media. Students attend three classes per week and do mandatory online work determined by the instructor.

**FR 0210 Intermediate French I****3 Credits****Prerequisite:** FR 0111.

This course, the first of a two-semester sequence, prepares students to continue the study of language on a more advanced level, and includes review of essential points of grammar, vocabulary building, and regular practice in speaking and writing. The language cultures are explored through a wide variety of materials (literary texts, press articles, films, etc.) Students attend three classes per week and do mandatory online work determined by the instructor.

<b>FR 0211 Intermediate French II</b> <b>Attributes:</b> LCEL LACS Minor: Elective <b>Prerequisite:</b> FR 0210. This course, a continuation of FR 0210, prepares students to continue the study of language on a more advanced level, and includes review of essential points of grammar, vocabulary building, and regular practice in speaking and writing. The language cultures are explored through a wide variety of materials (literary texts, press articles, films, etc.) Students attend three classes per week and do mandatory online work determined by the instructor.	<b>3 Credits</b>	<b>FR 0260 Introduction to Sub-Saharan African Culture</b> <b>Attributes:</b> BSAH Black Studies: Arts and Humanities, BSFC Black Studies Focus Course, E_AF English Literature After 1800, FREN French Course Taught in English, WDIV World Diversity <b>Prerequisite:</b> FR 0219 or FR 0220. This course taught in English explores the issues that confront Sub-Saharan Africa in its transformation from tradition to colonization, and finally to independence through a large variety of literary texts (traditional oral literature and modern written literature), critical theory, films, music, and magazine and newspaper articles. Texts and films will be discussed from a multi-disciplinary perspective to illustrate their cultural, sociological, political, and religious import. Africa's geography and major historical markers will be woven into the readings and discussions. Students taking this course for French credits will do a significant part of the readings and assigned writing in French.	<b>3 Credits</b>
<b>FR 0219 French Syntax and Expression</b> <b>Attributes:</b> FREL French Major or Minor Course <b>Prerequisite:</b> FR 0211. This course provides a rigorous review of French grammar and syntax and examines the critical differences between English and French. The goals of this course are to prepare students for further advanced courses, and to use French more accurately by practicing the specifics of grammar and syntax. Furthermore, the students will examine and use the French language in varying levels of discourse and registers, ranging from everyday speech to short narratives. To achieve these goals, we will examine contemporary, historical and literary readings, which contain the grammar and syntax under study and insure that they are studied in context.	<b>3 Credits</b>	<b>FR 0265 French Translation Workshop</b> <b>Prerequisite:</b> FR 0219 or FR 0220. In this course, students develop expertise in the art and craft of translation. The course presents terminology, advanced grammar analysis, and procedures that assist the translator in describing and solving translation problems. It uses real and simulated case studies in a variety of fields including commercial correspondence, tourism, food, transportation, telecommunications, social science, and literature. Students practice with native script, giving attention to individual interests and majors, using French-to-English and English-to-French translations. The class, which is conducted in both languages, uses human, computer-based, and print resources.	<b>3 Credits</b>
<b>FR 0220 Topics in Language and Culture</b> <b>Prerequisite:</b> FR 0211. This course improves proficiency in written and oral expression by focusing on topics in French language and culture. Students develop advanced writing and speaking skills while concentrating on grammar, style, and appropriateness. Weekly compositions, based primarily on the genres or topics studied allow students to identify and correct grammatical mistakes. Students present research in class in French. Films and various cultural artifacts (proverbs, songs, historical materials) familiarize students with idiomatic French.	<b>3 Credits</b>	<b>FR 0267 French Commercial Culture</b> <b>Prerequisite:</b> FR 0219 or FR 0220. This introduction to the business practices and economic situation of France in the context of the European Union emphasizes commercial vocabulary and business situations presented through extensive use of authentic material and documents. This course, which is of particular interest to students seeking a career in international business or international affairs, uses multimedia, Internet, and audio-visual resources extensively, and includes regular practice in speaking and writing.	<b>3 Credits</b>
<b>FR 0251 Culture and Civilization of France and the Francophone World I</b> <b>Prerequisite:</b> FR 0211. This course explores France and French-speaking people in a cultural, social, and historical context. Students use multimedia, Internet, and audio-visual resources extensively and submit frequent oral and written reports.	<b>3 Credits</b>	<b>FR 0271 Contemporary French Press and Media</b> <b>Prerequisite:</b> FR 0219 or FR 0220. Students read and discuss articles from representative magazines and newspapers in French, as well as reports from television news broadcasts and the Internet. The course considers how the media and technology are shaping French society in the 21st century and discusses a wide range of topics such as politics, education, religion, the arts, science, privacy, and censorship. Students complete frequent oral and written reports.	<b>3 Credits</b>
<b>FR 0252 Culture and Civilization of France and the Francophone World II</b> <b>Attributes:</b> WDIV World Diversity <b>Prerequisite:</b> FR 0211. This course explores the regions and people that comprise the francophone world in a cultural, social, and historical context. Students use multimedia, Internet, and audio-visual resources extensively and submit frequent oral and written reports.	<b>3 Credits</b>	<b>FR 0301 Survey of Literature in French I</b> <b>Prerequisite:</b> FR 0219 or FR 0220. This course presents a chronological view of French literature, emphasizing the most important writers and major literary movements and themes. Students will consider varied genres from the Middle Ages through the 17th century.	<b>3 Credits</b>
		<b>FR 0302 Survey of Literature in French II</b> <b>Prerequisite:</b> FR 0219 or FR 0220. This course presents a chronological view of French literature, emphasizing the most important writers and major literary movements and themes. Students will study the forces unleashed by the Revolution and consider the development of modern French literature.	<b>3 Credits</b>

**FR 0305 French and Francophone Women Writers                    3 Credits****Attributes:** WSGF Women, Gender, and Sexuality Studies: Gender Focused**Prerequisite:** FR 0219 or FR 0220.

The course explores a wide range of literary genres produced by women writers from France and the francophone world, investigating women's issues such as race, gender, class, status, and power within the historical, political, and cultural contexts of their regions of origin. The course introduces French feminist theories. Students read and conduct discussions in French and complete frequent oral and written assignments.

**FR 0337 Literature of the 19th Century: Romanticism to Naturalism                    3 Credits****Prerequisite:** FR 0219 or FR 0220.

From Romanticism to Naturalism, this course selects from a variety of genres - fantastic and exotic tales, science fiction, short stories, poetry and novels - to provide an overview of the rich literature of nineteenth-century France. Love, war, and the imagination contend for attention while the country emerges from political and social revolution, headed toward democracy and the Industrial Revolution. This course requires frequent oral reports and critical papers.

**FR 0366 Film and Literature in French                    3 Credits****Prerequisite:** FR 0219 or FR 0220.

This course examines the relationship between film and literature. Students view the film version of each work, which serves as a basis for class discussion. The course requires frequent oral and written works.

**FR 0377 Internship I                    3 Credits****Prerequisite:** FR 0219 or FR 0220.

The internship program gives students first-hand experience in the fields of translation, interpretation, cataloging, public relations, advertising, teaching, etc., in the language of their specialization. Department members, who agree to guide the endeavor, supervise student work. When required by a faculty supervisor, an evaluation of student interns may be required from the institution where students work. The student's work should demand no less than one full day per week, or its equivalent.

**FR 0378 Internship II                    3 Credits****Prerequisite:** FR 0219 or FR 0220.

The internship program gives students first-hand experience in the fields of translation, interpretation, cataloging, public relations, advertising, teaching, etc., in the language of their specialization. Department members, who agree to guide the endeavor, supervise student work. When required by a faculty supervisor, an evaluation of student interns may be required from the institution where students work. The student's work should demand no less than one full day per week, or its equivalent.

**FR 0381 Coordinating Seminar I                    3 Credits****Prerequisite:** FR 0219 or FR 0220.

Students undertake readings and studies in a specialized area of French, under the direction of a member of faculty. Designed to fill the special needs of specific students, this course is offered at the discretion of the department chair. Hours by arrangement.

**FR 0382 Coordinating Seminar II                    3 Credits****Prerequisite:** FR 0219 or FR 0220.

Students undertake readings and studies in a specialized area of French, under the direction of a member of faculty. Designed to fill the special needs of specific students, this course is offered at the discretion of the department chair. Hours by arrangement.

**FR 0399 Capstone Seminar                    3 Credits****Prerequisite:** Senior standing.

Majors in French participate in an interdisciplinary seminar in the spring of their senior year. The focus of this seminar varies according to the professor, but possible topics include European Film, The Grand Tour, Immigration in Europe, Capital Cities, Language Teaching and Technology, Europe and America. Students research their capstone papers in the target language and present the final work in English and French. The instructor may, in some cases, evaluate work in the target language in consultation with colleagues in that area of expertise in the department. Seminar is conducted in English.

## **General Studies (GS)**

**GS 0399 General Studies Senior Project                    3 or 4 Credits**

This course, required for all students earning a BA or BS degree in Liberal Studies, is typically taken during the final semester. The course synthesizes and integrates students' multidisciplinary studies. Students complete a project or thesis under the direction of a faculty member after first discussing the proposed project with an academic advisor and the faculty member. The course requires a written paper reflecting the various disciplines studied.

## **German (GM)**

**GM 0110 Elementary German I                    3 Credits**

Designed for students with no prior experience with German or whose placement scores are in the range for this course level. This course, the first of a two-semester sequence, teaches the essentials of pronunciation, structure, and usage, allowing students to acquire the skills of listening, speaking, reading, and writing. Language cultures are explored through a variety of media. Students attend three classes per week and do mandatory online work determined by the instructor.

**GM 0111 Elementary German II                    3 Credits****Prerequisite:** GM 0110.

This course, a continuation of GM 0110, teaches the essentials of pronunciation, structure, and usage, allowing students to acquire the skills of listening, speaking, reading, and writing. Language cultures are explored through a variety of media. Students attend three classes per week and do mandatory online work determined by the instructor.

**GM 0210 Intermediate German I                    3 Credits****Prerequisite:** GM 0111.

This course, the first of a two-semester sequence, prepares students to continue the study of language on a more advanced level, and includes review of essential points of grammar, vocabulary building, and regular practice in speaking and writing. The language cultures are explored through a wide variety of materials (literary texts, press articles, films, etc.). Students attend three classes per week and do mandatory online work determined by the instructor.

**GM 0211 Intermediate German II                    3 Credits****Prerequisite:** GM 0210.

This course, a continuation of GM 0210, prepares students to continue the study of language on a more advanced level, and includes review of essential points of grammar, vocabulary building, and regular practice in speaking and writing. The language cultures are explored through a wide variety of materials (literary texts, press articles, films, etc.). Students attend three classes per week and do mandatory online work determined by the instructor.

<b>GM 0220 Topics in Language and Culture</b>	<b>3 Credits</b>	<b>GM 0377 Internship</b>	<b>3 Credits</b>
<b>Prerequisite:</b> GM 0211.		The internship program gives students first-hand experience in the fields of translation, interpretation, cataloging, public relations, advertising, teaching, etc., in the language of their specialization. Department members, who agree to guide the endeavor, supervise student work. When required by a faculty supervisor, an evaluation of student interns may be required from the institution where students work. The student's work should demand no less than one full day per week, or its equivalent.	
This course improves proficiency in written and oral expression by focusing on particular topics in German language and culture. Students develop advanced writing and speaking skills while concentrating on grammar, style, and appropriateness. Weekly compositions, based primarily on the genres studies (short story, theater, memoir, essay) allow students to identify and correct grammatical mistakes. Students present speeches in class and conduct situational dramas such as job interviews, television reporting, courtroom trials, debates in German. Films and various cultural artifacts (comic strips, proverbs, songs) familiarize students with idiomatic German.			
<b>GM 0241 German Cinema</b>	<b>3 Credits</b>	<b>GM 0381 Coordinating Seminar</b>	<b>3 Credits</b>
<b>Prerequisite:</b> GM 0211.		Students undertake readings and studies in a specialized area of German under the direction of a staff member. Designed to fill the special needs of specific students, this course is offered at the discretion of the department chair. Hours by arrangement.	
German filmmakers are known for their artistic expression and reaction to social and political trends that concern the country and its citizens. This course deals with major developments of German cinema throughout the twentieth century and will give students an overview of major movements, important directors, genres, and actors in the history of German film, as well as socio-political matters facing Weimar and Nazi Germany, post-war West and East German states, and unified Germany. Students will be introduced to the tools of film analysis, cinematic codes, and techniques such as narration, mise-en-scène, cinematography, sound, editing, and how these affect the viewer.			
<b>GM 0251 German Civilization and Culture I</b>	<b>3 Credits</b>	<b>GM 0382 Coordinating Seminar</b>	<b>3 Credits</b>
<b>Prerequisite:</b> GM 0211.		Students undertake readings and studies in a specialized area of German under the direction of a staff member. Designed to fill the special needs of specific students, this course is offered at the discretion of the department chair. Hours by arrangement.	
This course examines the main currents of German culture and civilization through lectures, films, the Internet, and literary and cultural readings. Students complete frequent oral and written reports. Conducted in German, this course requires frequent oral and written reports.			
<b>GM 0252 German Civilization and Culture II</b>	<b>3 Credits</b>	<b>GM 0399 Capstone Seminar</b>	<b>3 Credits</b>
<b>Prerequisite:</b> GM 0211.		<b>Prerequisite:</b> Senior standing.	
This course examines German immigration, especially to the United States, considering in-depth the German-American experience through lectures, films, the Internet, and literary and cultural readings. Conducted in English, this course requires frequent oral and written reports.		Majors in German participate in an interdisciplinary seminar in the spring of their senior year. The focus of this seminar varies according to the professor, but possible topics include European Film, The Grand Tour, Immigration in Europe, Capital Cities, Language Teaching and Technology, Europe and America. Students research their capstone papers in the target language and present the final work in English and German. The instructor may, in some cases, evaluate work in the target language in consultation with colleagues in the area of expertise in the department. Seminar is conducted in English.	
<b>GM 0262 Survey of German Literature</b>	<b>3 Credits</b>		
This course offers an overview of German works and literary movements from the Middle Ages to 1945, providing students with the fundamentals of literary analysis in the genres of poetry, drama, novellas, novels, short stories, and film. The course requires frequent oral and written reports.			
<b>GM 0291 Modern German Literature</b>	<b>3 Credits</b>	<b>Graphic Design (GD)</b>	
This course introduces students to a variety of German literature and genres written in the 20th century. All works are heavily influenced by the two world wars. The literary canon includes a text by Kafka, portraying hope and despair, and Anna Seghers' poems and short stories written in exile portraying the various social and political changes in West Germany, and the essays by the East German writer Christa Wolf that deals with loyalty and dissidence. The course also addresses narrative strategies and the challenges faced by the translator. Furthermore, we talk about the different roles literature can play, including the influence and value in furthering the understanding of material to contextualize the readings. Of particular interest is the portrayal of social and political issues.		<b>GD 0201 Graphic Design I: Making Meaning</b>	<b>3 Credits</b>
		<b>Prerequisite:</b> Completion of four preparatory classes in the Graphic Design minor.	
		In today's world, we are literally surrounded by graphic design, from billboards to soda cans, from Facebook pages to political ads. The graphic designer develops engaging material that communicates a pointed message and persuades an audience. This class focuses on the basic ingredients of graphic design: typography, image, and color. We further explore the combination of these elements into compositions, utilizing proximity, alignment, contrast and repetition. We engage in the complexity of the creative process, developing a strong designer's process, working both by hand and on the computer. Being critical of design is an essential element of designing. Therefore, we will analyze designs for their efficacy, as we lay the foundation for further study in graphic design. In addition to personal sketchbooks, we will use Adobe Photoshop, Illustrator, InDesign, and AfterEffects software.	

**GD 0202 Graphic Design II: Clients and Collaboration****3 Credits****Prerequisite:** GD 0201.

This course will address the relationship between the graphic designer and the client. What can a designer do when the client specifies a "cleaner" logo? How can a designer respond when a client says, "I don't know what I want, but it's not that"? We will practice essential research and analysis skills, as well as the questions that designers can ask clients, to help both parties understand the goals of any given design. We will also examine the variety of delivery systems for graphic design, from printed to electronic media, and how they affect both layout and file formats. We will continue to develop expressive skills using text, image and layout. We will also continue to engage in the complexity of the creative process, developing a strong designer's process, working both by hand and on the computer. We will also continue to develop our design sense by critically analyzing designs.

**Greek (GR)****GR 0111 Elementary Attic Greek****3 Credits**

Students study the grammar of Attic Greek. The course employs readings in easier authors to develop a practical reading knowledge of ancient Greek.

**GR 0210 Intermediate Greek Readings I****3 Credits****Prerequisite:** GR 0111.

This course includes intensive reading of selected authors of moderate difficulty in various genres, with extensive readings in translation, to give a survey of classical Greek literature.

**GR 0211 Intermediate Greek Readings II****3 Credits****Prerequisite:** GR 0210.

This course, a continuation of GR 0210, includes intensive reading of selected authors of moderate difficulty in various genres, with extensive readings in translation, to give a survey of classical Greek literature. The two-semester course fulfills the core requirement in foreign languages.

**GR 0325 Advanced Greek Readings I****3 Credits****Prerequisites:** GR 0210, GR 0211.

Involves extensive readings of selected works of ancient Greek literature.

**GR 0326 Advanced Greek Readings II****3 Credits****Prerequisites:** GR 0210, GR 0211.

Involves extensive readings of selected works of ancient Greek literature.

**GR 0327 Advanced Greek Readings III****3 Credits****Prerequisites:** GR 0210, GR 0211.

Involves extensive readings of selected works of ancient Greek literature.

**GR 0328 Advanced Greek Readings IV****3 Credits****Prerequisites:** GR 0210, GR 0211.

Involves extensive readings of selected works of ancient Greek literature.

**Health Studies (HS)****HS 0101 Introduction to Health Studies****3 Credits****Prerequisite:** Sophomore standing or higher.

This course takes an interdisciplinary approach to the evolution of healthcare in America. The course will apply a social science lens to the assessment of various healthcare co-cultures, including: providers, patients, and insurers. The impact of technology, pharmaceuticals, and medical devices on patient longevity, wellness, and disease management will be explored. In addition, the dialectical tensions created by acute care/disease-focused vs. quality-of-life/wellness-centric healthcare delivery models will be examined. The evolving economic burdens of: an aging population, uninsured Americans, expanding technology, provider specialization, and fewer healthcare gatekeepers on the U.S. healthcare system will also be assessed.

**HS 0200 Health Communication for Healthcare Professionals****3 Credits****Attributes:** HSSS Health Studies: Social Science**Prerequisite:** Juniors or senior standing.

This course will examine the processes and complexities of health communication with an applied focus. The primary purpose of this course is to provide an understanding of the methods and symbols used to communicate information about health. The course will evaluate and explore the multidimensional processes used to create, maintain, and transform complex scientific realities into everyday healthcare information for providers, patients, families, etc. In addition, students are required to do 20 hours of service learning at the VA Hospital in West Haven, CT. Open only to Nursing majors and Health Studies minors.

Previously CO 0248H.

**HS 0399 Health Studies Capstone****3 Credits****Prerequisites:** HS 0101; completion of at least two health studies electives.

The Health Studies Capstone allows the student to integrate and reflect on the wealth of information learned in HS 0101 and the three elective courses in the minor. Students will undertake an independent research project in some area of Health Studies, and through discussions with the professor and other students, dissect and analyze their theme from a broad range of perspectives. The project will culminate with both a written paper, and an oral or poster presentation at the annual Health Studies symposium in the spring. Enrollment by permission only.

**Hebrew (HE)****HE 0110 Elementary Hebrew I****3 Credits****Attributes:** JST Judaic Studies Minor

Designed for students with no prior experience with Hebrew or whose placement scores are in the range for this course level. This course, the first in a two-semester sequence, teaches the essentials of pronunciation, structure, and usage, allowing students to acquire the skills of listening, speaking, reading, and writing. Language cultures are explored through a variety of media. Students attend three classes per week and do mandatory online work determined by the instructor.

**HE 0111 Elementary Hebrew II****3 Credits****Attributes:** JST Judaic Studies Minor**Prerequisite:** HE 0110.

This course, a continuation of HE 0110, teaches the essentials of pronunciation, structure, and usage, allowing students to acquire the skills of listening, speaking, reading, and writing. Language cultures are explored through a variety of media. Students attend three classes per week and do mandatory online work determined by the instructor.

**HE 0210 Intermediate Hebrew I****Attributes:** JST Judaic Studies Minor**Prerequisite:** HE 0111.

This course, the first in a two-semester sequence, prepares students to continue the study of language on a more advanced level, and includes review of essential points of grammar, vocabulary building, and regular practice in speaking and writing. The language cultures are explored through a wide variety of materials (literary texts, press articles, films, etc.). Students attend three classes per week and do mandatory online work determined by the instructor.

**3 Credits****HE 0211 Intermediate Hebrew II****3 Credits****Attributes:** JST Judaic Studies Minor**Prerequisite:** HE 0210.

This course, a continuation of HE 0210, prepares students to continue the study of language on a more advanced level, and includes review of essential points of grammar, vocabulary building, and regular practice in speaking and writing. The language cultures are explored through a wide variety of materials (literary texts, press articles, films, etc.). Students attend three classes per week and do mandatory online work determined by the instructor.

## **History (HI)**

**HI 0100 Origins of the Modern World Since 1500****3 Credits**

The course, which examines the history of Europe and its relationship to the world from the end of the Middle Ages through the 19th century, emphasizes the cultural, social, economic, and political forces and structures that led to the development of commercial and industrial capitalism, and the effects of this development on Europe, the New World, Asia, and Africa. Topics include the Renaissance and Reformation; the Transatlantic Slave Trade; European expansion and colonialism; the development of strong nation states; the Enlightenment; the Industrial Revolution and conflicting ideological and political responses; changing social, family, and gender relationships; and the increasing interaction of Europeans and non-Europeans. Critical analysis of primary and secondary sources develops skills in historical methodology that are of great value in many other academic pursuits. Written assignments and class discussions enhance these skills. Formerly HI 0010.

**HI 0102 China, Japan, and Europe****3 Credits**

How can we provide a non-Eurocentric explanation of the rise of the modern world that has European and American features? We can do so by examining the encounters between the West and other parts of the world and by beginning and ending the story of the rise of the modern world not in Europe but elsewhere. This course surveys the history of Europe and the Atlantic world and their encounters with East Asia from the 1400s to the 1800s.

**HI 0103 Europe, Russia, and the World, 1300-1918****3 Credits**

This course examines the history of Europe and Russia and their relationship to the wider world from the end of the Middle Ages through World War I. Emphasis is placed upon cultural, social, economic, and political movements and the process of social and political change in Europe and Russia.

**HI 0104 War and Conflict in Western History, 1490-1989****3 Credits**

In this course we shall explore the political, social, religious, economic, and technological history of the western world by focusing on a single theme: war. By studying the conflicts that ravaged Europe and the world from ancient times to the later 20th century, we shall discover that war as an historical subject is much more than simply battles and tactics. What causes war? Religion? Politics? Economics? Social structures? The answer is "all of the above, intertwined."

**HI 0105 Utopian Ideas and Practice Since 1500****3 Credits**

In order to understand past events, we must have a grasp on how their participants thought and what they imagined. This is a history of past futures: what people imagined would, could, or should happen. All utopian texts carry a critique of the societies that their authors inhabited.

**HI 0106 Imperialism and Colonialism in World History, 1500-Present****3 Credits**

This course is an introduction to the history of the modern world since 1500. Using a World History approach, we will explore the dramatic transformation of human societies over the past five centuries as a truly global process produced through the interactions of the West and "the rest." The course focuses on the role of empires, imperialism, and colonialism in shaping world history.

**HI 0112 Germany Between Dictatorship and Democracy****3 Credits**

This course examines the turbulent history of modern Germany from the Second German Empire, or Kaiserreich, to the present day Federal Republic. For much of this period, Germany played a pivotal, and indeed fateful, role in European and world affairs.

**HI 0146 Women's History as U.S. History****3 Credits**

This course is an introduction to the discipline of history through a survey of American women's experiences from the pre-colonial era to the 1960s. Weighing the impact of gender with race and class on everyday life, we explore the intersectional features of identity from multiple perspectives.

**HI 0201 History of Western Science****3 Credits****Attributes:** H\_AF History After 1750, H\_EU European History**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

This course is an introduction to the history of western science from antiquity to the present. Science informs our understanding of and interaction with every aspect of the world around us. In this course we will explore the historical paths that brought us to our contemporary understanding of the core sciences. We will examine scientists and their science within the broader historical contexts that shaped their lives and work. We will think critically about how scientific knowledge is created and the way society has used and abused scientific information.

**HI 0202 Health and Healing in America, 1650-1980: History of Western Medicine****3 Credits****Attributes:** HSTE Health Studies: Traditions, Delivery, and Ethics, H\_AF**History After 1750, H\_US U.S. History****Prerequisite:** HI 0010 or CL 0115 or CL 0116.

This course examines major themes and problems in the history of health and medicine in America. Students will explore the changing conceptions of health, illness, and disease from the colonial period through the 20th century in the U.S. Students will analyze the economic, political and cultural forces that helped shape the activities of patients and medical practitioners within an evolving medical marketplace. This course will introduce students to the perspectives of a wide range of sufferers and healers. Students will examine how medical theories, gender, race, class, and ethnicity have shaped the history of medicine in complex ways.

**HI 0203 European Society Middle Ages****3 Credits**

**Attributes:** CAOT Catholic Studies: Non-Religious Studies, H\_BF History Before 1750, H\_EU European History, ISIC Italian Studies: Italy Component

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

This course examines the social history of Europe from the barbarian migrations of the fifth century until the end of the Hundred Years War. From feudalism and the concept of courtly love, to the bitter power struggles of popes and monarchs, the course emphasizes emerging institutions, secular and religious, that came to define Western Europe in this and subsequent ages and to provide its most enduring rifts and hatreds. The course offers in-depth consideration of the role of women in medieval society, the persecution of Jews and other minorities, the Crusades, and the Black Death, with particular focus on their impact on the lives of average Europeans. Students read from primary and secondary sources.

**HI 0205 Anti-Semitism: Medieval to Modern****3 Credits**

**Attributes:** CAOT Catholic Studies: Non-Religious Studies, H\_BF History Before 1750, H\_EU European History, JST Judaic Studies Minor

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

This course surveys the history of Jewish-Christian interaction in Europe from late antiquity until the Dreyfus Affair, with emphasis on the 10 centuries between the ninth and the 19th. Using primary and secondary sources, literature, and film, students explore the complex relationships between Jews and Christians in these years, including often overlapping instances of persecution, segregation, disputation, coexistence, assimilation, and cooperation. The major political events, social shifts, and intellectual trends that profoundly altered European society in this extended period provide the backdrop against which the changing lives of Jewish and Christian Europeans are studied.

**HI 0210 The Third Reich****3 Credits**

**Attributes:** GMEL German Major or Minor Course, GMEN German Course Taught in English, H\_AF History After 1750, H\_EU European History, JST Judaic Studies Minor

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

This course examines the origins and legacy of the Nazi dictatorship during the years 1933-1945. We begin by analyzing the factors that facilitated the Nazis' rise to power including the long-term peculiarities of German history, the short-term crises of the years 1918-33, and the relationship between Hitler and the German people. Thereafter, the course examines the social, economic, political, and cultural life of the Third Reich during the years, 1933-39, before turning to Hitler's unleashing of World War II and the Holocaust in the years 1939-45. The course concludes by surveying the Nazi era's lingering legacy in postwar German and European memory.

**HI 0212 Modern Germany: From Reich to Republic****3 Credits**

**Attributes:** GMEL German Major or Minor Course, GMEN German Course Taught in English, H\_AF History After 1750, H\_EU European History, JST Judaic Studies Minor

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

This course examines the turbulent history of modern Germany from the Second German Empire, or Kaiserreich, to the present-day Federal Republic. Themes include the destabilizing emergence of Germany as a great power in the late 19th century, the outbreak of World War I, the collapse of the Empire, and the revolutionary upheaval of 1918 to 1919. The course examines the birth of the ill-fated Weimar Republic, the rise of Nazism, and the establishment of the Third Reich before moving to Hitler's unleashing of World War II, his genocidal campaign against the Jews, and Germany's ensuing wartime devastation, occupation, and division. The course concludes with an examination of the postwar political, social, and cultural development of West and East Germany through the nation's unification in 1990.

**HI 0213 In the Wake of Destruction: Europe Since World War II****3 Credits**

**Attributes:** H\_AF History After 1750, H\_EU European History

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

This course surveys the major political, social, and cultural trends that have swept Europe since 1945. Themes include the struggle to reconstruct a stable political order in the immediate aftermath of WWII, the conservative retrenchment of the 1950s, the New Left radicalism of the 1960s, the neo-conservative reaction of the late 1970s and 1980s, the alleged "end of history" following the revolutions of 1989, and Europe's political future in the post-9/11 age of globalization. Against the backdrop of these political trends, we examine how the trauma of war, the achievement of economic prosperity, the upsurge in anti-establishment radicalism, the emergence of a multicultural European society, and fears of decline have affected a wide range of cultural realms, spanning literature, philosophy, art, architecture, and film.

**HI 0214 Modern Jewish History****3 Credits**

**Attributes:** H\_AF History After 1750, H\_EU European History, JST Judaic Studies Minor

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

This course surveys the history of the Jewish people from the middle of the eighteenth century up to the present day. Following a brief survey of the ancient and medieval periods, we will examine the social, political, and cultural changes brought about by the dawning of the Jewish Enlightenment, the struggle for political emancipation, and the pursuit of religious reform in Western and Eastern Europe. We will then examine modern anti-Semitism, Zionism, the Holocaust, and the founding of the state of Israel. The course concludes by surveying the history of American Jewry.

**HI 0215 Ireland: Middle Ages to the Present****3 Credits**

**Attributes:** CAOT Catholic Studies: Non-Religious Studies, H\_BF History Before 1750, H\_EU European History

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

This course examines political, religious, economic, and social developments in the Irish island from early medieval times to the present day. Topics include Celtic culture and civilization, the coming of Christianity, the Viking and Norman invasions, the English conquests in the 16th and 17th centuries, the 18th-century Protestant ascendancy, the subsequent struggle for Catholic emancipation and home rule, the Potato Famine of 1845 to 1850, the struggle for independence during the early 20th century, the ultimate establishment of the Irish republic, the current problems in Northern Ireland, and the historical ties between Ireland and the United States.

**HI 0216 Rise of the British Empire****Attributes:** H\_BF History Before 1750, H\_EU European History**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

This course examines the history of Britain and of British overseas expansion between 1400 and 1800: the Tudor-Stuart conquest of Ireland; the establishment of the North American colonies and West Indian plantations; the growth of British power in India during the 18th century, the loss of the Thirteen Colonies, and the beginnings of British rule in Canada. Students study the causes and effects of imperial expansion from the standpoints of British political development, British society, English-speaking colonists, African slaves, and Native Americans.

**HI 0217 Britain and Its Empire Since 1800****3 Credits****Attributes:** H\_AF History After 1750, H\_EU European History**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

This course examines the history of Britain and the British Empire from its great 19th-century expansion into Africa and Asia to its eventual crumbling under the impact of 20th-century independence movements and global war. Students compare the various independence movements, from the relatively peaceful transitions of Canada and Australia to the more violent ones by Ireland, South Africa, and India. The course finishes with an examination of the current racial and cultural conflicts that beset Britain's former colonies, with particular focus upon Ireland and South Africa.

**HI 0220 Ancient African Civilizations****3 Credits****Attributes:** BSCP Black Studies Capstone Course, BSFC Black Studies Focus Course, H\_BF History Before 1750, H\_NW Non-Western History, ISIF Italian Studies: Italy-Focused, WDIV World Diversity**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

This class introduces the civilizations of the ancient Nile Valley, Egypt, Nubia and Ethiopia. It also provides an introduction to the transformation and survival of those civilizations into the medieval and modern worlds. Lectures will cover the social and political history of Pharaonic Egypt; the transformations of Egypt under Greco-Roman rule; the emergence of independent Nubia; the birth of a centralized and literate society in the Ethiopian highlands; the Christianization of Egypt, Nubia, and Ethiopia; the survival of Nubia and Ethiopia as independent medieval powers; and the historical memory of modern Copts, Nubians and Ethiopians.

**HI 0221 Hellenistic World, 336-30 BCE****3 Credits****Attributes:** H\_BF History Before 1750, H\_EU European History, H\_NW Non-Western History, WDIV World Diversity**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

The course examines the Mediterranean world and the ancient Near East from the late fourth to late first centuries BC. Focus is on: the career of Alexander the Great; the Greek kingdoms that emerge after the collapse of his empire; the interaction between local cultures and religions, e.g. Egypt, ancient Judaism, and Greek civilization; the social history of daily life in conquered lands under Greek rule; and the transformations in the Hellenistic world with the arrival of Roman rule.

**HI 0222 The Roman Revolution****3 Credits****Attributes:** H\_BF History Before 1750, H\_EU European History, ISIF Italian Studies: Italy-Focused**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

This comprehensive study of the political, social, artistic, literary, and military transformation of Rome from the middle of the second century BCE through the reign of Augustus gives special attention to Rome's response to the cultural and governmental challenges imposed by its growing empire and how its responses forever changed the course of Western civilization.

**HI 0223 The Roman World in Late Antiquity, 284-642 AD****3 Credits****Attributes:** H\_BF History Before 1750, H\_EU European History, ISIC Italian Studies: Italy Component**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

The course examines the Mediterranean world from the third to seventh centuries AD. Focus is on: the collapse of the Roman Empire in western Europe; the dramatic upheavals caused by the arrival in the Roman Empire of the Visigoths, Vandals, and other barbarian tribes; the survival of the Byzantine East through the early Islamic conquests; the rise of Christianity from a persecuted religion to the official religion of the Roman Empire; and the accompanying cultural transformations, including the rise of monasticism and the importance of the holy man.

**HI 0224 Byzantine World****3 Credits****Attributes:** H\_EU European History**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

This course is an introduction to political and social history of Byzantine Empire. It also highlights Byzantium's role as a bridge between Greco-Roman antiquity and modern European civilization. Course lectures will cover Byzantium's origins in the eastern half of the Roman Empire, Byzantium's middle period as a major Mediterranean power, and its late period as an increasingly shrinking city-state. The course will also introduce students to some of the major Byzantine historians and to methods of analysis using these sources, and train students to form historical arguments based on these analyses.

**HI 0230 Early Modern France****3 Credits****Attributes:** FREN French Course Taught in English, H\_BF History Before 1750, H\_EU European History**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

This course covers the political, social, and cultural development of France from the 16th-century Wars of Religion to the ascension of Napoleon I in 1804, with an emphasis on the effects of revolutionary change on daily life (including the role of women, popular piety, the church and religious dissent, and labor relations), and on the impact of new political languages beyond the borders of France itself. Source readings, from the salon writings of the Bourbon court to the raucous songs of the streets of Paris, aid in considering if a French identity was formed during the period.

**HI 0237 American Prophetic Tradition****3 Credits****Attributes:** ASHI American Studies: History, ASUP American Studies Upper Level, EDCG Educational Studies Cognate, EDUS Education Minor U.S. History Course, H\_AF History After 1750, H\_US U.S. History, PJST Peace and Justice Studies**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

This Ignatian Residential College course explores the experiences of individuals and social movements throughout U.S. history, who from a variety of religious and philosophical traditions found meaning in their lives and made an impact on U.S. society. Individuals range from Mary Dyer and Roger Williams to Lucretia Mott, Walter Rauschenbusch, Dorothy Day, John Cardinal Murray, and Jonathan Kozol, from the abolitionists to the anti-war movement.

**HI 0238 19th Century United States****3 Credits**

**Attributes:** ASGW American Studies: Gateway, ASHI American Studies: History, ASUP American Studies Upper Level, BSCC Black Studies Component Course, BSHI Black Studies: History, EDCG Educational Studies Cognate, EDUS Education Minor U.S. History Course, H\_AF History After 1750, H\_US U.S. History

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

Students study the major transformations in U.S. economy, society, and politics from the Federalist era, through the Civil War to the beginning of the Progressive Era. The course analyzes forces of change in the United States - the struggle over slavery, as well as urbanization, industrialization, the maturation of corporate capitalism, and the growing importance of international affairs - and their effects on the way people lived, thought, and acted. The experiences of African-Americans, immigrants, and women receive special attention.

**HI 0239 20th Century United States****3 Credits**

**Attributes:** ASGW American Studies: Gateway, ASHI American Studies: History, ASUP American Studies Upper Level, BSCC Black Studies Component Course, BSHI Black Studies: History, EDCG Educational Studies Cognate, EDUS Education Minor U.S. History Course, H\_AF History After 1750, H\_US U.S. History, UDIV U.S. Diversity

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

The course surveys developments in American social, political, and economic life since 1900. Major themes include problems of advanced industrial society, the growing government role in the economy, America's growing role in the world, and social movements of the 1930s and 1960s. Ethnic and cultural diversity within American society receive attention.

**HI 0240 The Personal Is Political: Women's Activism in the****1960s****3 Credits**

**Attributes:** ASHI American Studies: History, ASUP American Studies Upper Level, H\_AF History After 1750, H\_US U.S. History, PJST Peace and Justice Studies, UDIV U.S. Diversity, WSGF Women, Gender, and Sexuality Studies: Gender Focused

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

Little fanfare and much derision accompanied the re-emergence of a women's movement in the mid-1960s. Within less than a decade, massive changes were underway. From the dismantling of gendered employment ads to the identification of domestic violence as a crime, few argued that Second Wave Feminism was meaningless. Students in this course discuss the depth and range of women's grass roots activism as well as the features of a social movement; they trace the development of consciousness, the growth of different ideologies, and the formation of agendas. The course also explores movement fault lines such as the fictive category of woman, racism, and "structurelessness," in addition to the difficulties of sustaining coalition. From the Montgomery bus boycott in 1955 to the Houston Conference 22 years later, students encounter the women who illuminated the political nature of issues once relegated to the private arena. Course material includes extensive use of autobiography.

**HI 0242 Immigration, Race, and Ethnicity in U.S. History****3 Credits**

**Attributes:** ASHI American Studies: History, ASUP American Studies Upper Level, BSCC Black Studies Component Course, BSHI Black Studies: History, H\_AF History After 1750, H\_RE History: Research Paper, H\_US U.S. History, JST Judaic Studies Minor, UDIV U.S. Diversity

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

This thematically arranged intensive reading, writing, and discussion seminar on the history of U.S. immigration in the 19th and 20th centuries situates the United States within the context of global migration patterns and economic development. Students investigate patterns of migration and community settlement, family strategies of survival and adaptation, and immigrant cultures. They analyze how successive groups of immigrants were received by U.S. society by examining the origins and effects of recurrent waves of racism, nativism, and ethnic and class antagonism that pervade American history.

**HI 0243 American Constitutional and Legal History I: 1776-1900****3 Credits**

**Attributes:** ASHI American Studies: History, ASUP American Studies Upper Level, EDCG Educational Studies Cognate, EDUS Education Minor U.S. History Course, H\_AF History After 1750, H\_US U.S. History

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

This course covers the origins of the American constitutional tradition, the manifold heritage of the American Revolution, Jeffersonian republicanism and federal judicial power, nationalism and the centralization of the Marshall court, the reaction on the Taney court, slavery and sectionalism, the Civil War, Reconstruction, the Second American Constitution, and the Gilded Age turn in American law.

**HI 0244 American Constitutional and Legal History II: 1900 to Present****3 Credits**

**Attributes:** ASHI American Studies: History, ASUP American Studies Upper Level, EDCG Educational Studies Cognate, EDUS Education Minor U.S. History Course, H\_AF History After 1750, H\_US U.S. History

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

This course examines the latter portion of the Fuller court, Imperialism and the Constitution, governmental efforts to restore economic competition, the police power, economic reform, progressivism, the tradition of national supremacy, new turns in civil liberties, the New Deal and the old Supreme Court, civil rights and the incorporation theory of the 14th amendment, and new roads back to legal conservatism.

**HI 0245 Feminism in the United States****3 Credits**

**Attributes:** ASHI American Studies: History, ASUP American Studies Upper Level, EDCG Educational Studies Cognate, EDUS Education Minor U.S. History Course, H\_AF History After 1750, H\_US U.S. History, PJST Peace and Justice Studies, UDIV U.S. Diversity, WSGF Women, Gender, and Sexuality Studies: Gender Focused

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

Participants study feminism based on the premise that it is a multi-faceted struggle for women's autonomy and self-determination. The course focuses largely on the United States, birthplace of the first organized women's movement; however, it periodically expands its view beyond the United States for purposes of comparison. Students analyze the development of the feminist movement as well as feminist theory during the 19th and 20th centuries and explore the discourse on gender mediated by race and class, and its impact on women's lives. Using primary and secondary sources, students work toward a historical definition of feminism.

**HI 0246 Women and Gender in U.S. History****3 Credits**

**Attributes:** ASGW American Studies: Gateway, ASHI American Studies: History, ASUP American Studies Upper Level, EDCG Educational Studies Cognate, EDUS Education Minor U.S. History Course, H\_AF History After 1750, H\_US U.S. History, UDIV U.S. Diversity, WSGF Women, Gender, and Sexuality Studies: Gender Focused

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

This course surveys American women's history from the colonial era to the present, exploring the impact as well as the interdependence of gender, race, and class on experience. Although the term social history describes the course approach, it uses biography to illuminate key issues and enrich student perspectives. Through careful examination of primary and secondary sources, the course pursues two themes: the interplay of gender constructs through the myths and realities of women's lives, and the crucial role women played in transforming public and private space. The course views women as agents whose testimony and actions are vital to understanding our history.

**HI 0247 Family and Sexuality in U.S. History****3 Credits**

**Attributes:** ASHI American Studies: History, ASUP American Studies Upper Level, H\_AF History After 1750, H\_US U.S. History, UDIV U.S. Diversity, WSGF Women, Gender, and Sexuality Studies: Gender Focused

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

This course examines the growing scholarship in the fields of family history and sexual history in America. Students will explore the changing meanings of family, love, intimacy, emotions and sexuality from the colonial period through the 20th century in the U.S. Students will analyze the economic, political and cultural forces that helped shape sexual and family history. This course will introduce students to a wide range of American families and sexualities in history, examining how race, class, and ethnicity have made familial formation, sexual behavior and personal identity richly varied and complex.

**HI 0250 America Enters the World: United States Foreign Relations, 1763-1900****3 Credits**

**Attributes:** ASHI American Studies: History, ASUP American Studies Upper Level, EDCG Educational Studies Cognate, EDUS Education Minor U.S. History Course, H\_AF History After 1750, H\_US U.S. History

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

Students explore the foundation of U.S. foreign relations from independence in 1776 to the outbreak of World War I in 1914. This course looks closely at the interrelationship between ideals and reality as the new United States struggled to protect and confirm its independence, establish a constitutional basis for foreign policy, and expand its borders and influence across the North American continent and around the world. The course discusses such questions as manifest destiny, the Monroe Doctrine, the Mexican War, the displacement of Native Americans, southern expansionism and the Civil War, the Spanish American War, and the open door policy as the United States became a world power on the eve of World War I.

**HI 0251 The American Century: The United States and the World Since 1900****3 Credits**

**Attributes:** ASGW American Studies: Gateway, ASHI American Studies: History, ASUP American Studies Upper Level, EDCG Educational Studies Cognate, EDUS Education Minor U.S. History Course, H\_AF History After 1750, H\_US U.S. History

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

This course examines the development, crises, and turning points in U.S. relations with the world from Woodrow Wilson to the present, exploring issues such as U.S. reactions to the Russian Revolution, World War I, isolationism and the coming of World War II, the Grand Alliance, the origins and development of the Cold War, the nuclear arms race, the Vietnam War, the United States and Latin America, U.S./Soviet relations, the Middle East and Persian Gulf crises, and the post-Cold-War world.

**HI 0253 Early America to 1800****3 Credits**

**Attributes:** ASGW American Studies: Gateway, ASHI American Studies: History, ASUP American Studies Upper Level, EDCG Educational Studies Cognate, EDUS Education Minor U.S. History Course, H\_BF History Before 1750, H\_US U.S. History

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

This study of the foundations of American civilization compares the colonial systems of Spain, France, and England. The course stresses the development of the British colonies in New England, the mid-Atlantic, and the South, with special emphasis on such topics as Puritanism, the Great Awakening, and the Enlightenment in America. The course continues through the American Revolution and the early United States to 1800. The role of outsiders -- free and enslaved Africans, women and American Indians -- is stressed.

**HI 0256 Introduction to Public History****3 Credits**

**Attributes:** H\_AF History After 1750, H\_US U.S. History

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

This course presents the field of Public History, which is the application of academic historical knowledge for presentation to the general public in a manner that enhances the public's understanding of historical change. It gives students the skills to think about and write local history, by exploring the bases for historical analysis through evaluation of primary-source documents and familiarity with secondary historical interpretations. Through service-learning projects, students will serve community partners such as the Fairfield Museum and History Center, the Bridgeport Public Library Historical Collections, and the Barnum Museum, by contributing historical research, designing exhibitions, and preparing curriculum lesson plans.

**HI 0257 Who Built America? Working People in America****3 Credits**

**Attributes:** ASGW American Studies: Gateway, ASHI American Studies: History, ASUP American Studies Upper Level, EDCG Educational Studies Cognate, EDUS Education Minor U.S. History Course, H\_AF History After 1750, H\_US U.S. History, UDIV U.S. Diversity, WSGC Women, Gender, and Sexuality Studies: Gender Component

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

This course explores the history of working people's lives and social movements in the U.S. from the pre-industrial era, through the Industrial Revolution, to today's "post-industrial" society. This is not an Industrial Relations course. We look at three broad areas of historical change: 1) work itself; 2) the making and re-making of the American working class; and 3) the definitions of social justice that working people constructed for themselves and that informed their social movements. Our goal is to understand how and why the "Labor Question" was at the heart of American reform movements in the 19th and 20th centuries. Special attention will be given to the experiences of women, African Americans, and other racial and ethnic groups.

**HI 0262 African-American History, 1619 to 1865****3 Credits**

**Attributes:** ASHI American Studies: History, ASUP American Studies Upper Level, BSFC Black Studies Focus Course, BSHI Black Studies: History, EDCG Educational Studies Cognate, EDUS Education Minor U.S. History Course, H\_BF History Before 1750, H\_US U.S. History, PJST Peace and Justice Studies, UDIV U.S. Diversity

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

This course examines the role that Africans played in the building of America after their forced migration to these shores. It emphasizes the rise of the plantation system, the cultural transformation of Africans into African-Americans, and the essential roles that slaves and slavery played in the emergence of the United States as an independent nation and its political and economic consolidation into a modern nation-state. Slaves and free blacks figure in this history, not just as tools and backdrop, but as social and political actors, rebels, and major builders of American civilization.

**HI 0263 Inventing Themselves: African-American Women in U.S.****3 Credits**

**Attributes:** ASHI American Studies: History, ASUP American Studies Upper Level, BSFC Black Studies Focus Course, BSHI Black Studies: History, EDCG Educational Studies Cognate, EDUS Education Minor U.S. History Course, H\_AF History After 1750, H\_US U.S. History, PJST Peace and Justice Studies, UDIV U.S. Diversity, WSGF Women, Gender, and Sexuality Studies: Gender Focused

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

At the intersection of race, gender, and class, African-American women often challenged the codification of blackness and femaleness as well as a limited conception of class consciousness. From the diaspora to the present, they created forms of resistance, devised survival strategies, and transmitted cultural knowledge while defying racial/gender stereotypes. The multiple roles assumed by African-American women during their struggle from slaves to citizens in the United States represent a complex study of the relational nature of difference and identity. This course focuses on African-American women as subjects and agents of pivotal importance within the family, community, and labor force.

**HI 0264 African-American History, 1865 to Present****3 Credits**

**Attributes:** ASHI American Studies: History, ASUP American Studies Upper Level, BSFC Black Studies Focus Course, BSHI Black Studies: History, EDCG Educational Studies Cognate, EDUS Education Minor U.S. History Course, H\_AF History After 1750, H\_US U.S. History, PJST Peace and Justice Studies, UDIV U.S. Diversity

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

This course examines the role people of African descent played as freed people and free people during Reconstruction, the Gilded Age, and the 20th century. It emphasizes the Southern origins of African America, the politics and economic activism of common people, and the recurring theme of struggle against racial injustice.

**HI 0265 History of the Indian Subcontinent: Colonialism, Nationalism, and Democracy, c.1857-Today****3 Credits**

**Attributes:** H\_NW Non-Western History, PJST Peace and Justice Studies, WDIV World Diversity

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

Faced with unrivaled questions of diversity, poverty, and scale, South Asia has been a crucial laboratory in the making of political modernity. India, with a population numbering over a billion, is the world's largest democracy. Pakistan was the world's first Muslim "homeland" and "nation." Beginning with an examination of the colonial period, this course reconsiders partition, and then follows the postcolonial trajectories of India, Pakistan, and Bangladesh. We explore innovative and divergent imaginations of the future, and of democracy in particular. We encounter Hindu nationalists, communists, socialists, liberals, anarchists, Islamists, and Muslim nationalists, revolutionaries, and the inescapable Mahatma Gandhi.

**HI 0270 History of Global Humanitarian Action****3 Credits**

**Attributes:** H\_AF History After 1750, H\_EU European History, PJST Peace and Justice Studies, WDIV World Diversity

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

This course, an intermediate (second core) history course, surveys the history of global humanitarian action in the face of famine, war, plague, natural disaster, refugees and other crises, since the middle of the nineteenth century. We will focus on intervention by European powers, the United States, the international community, and non-governmental actors. Special focus in case studies will be on 20th century war, famine, and genocide. Each student will research a case study with a focus on potential points of life-saving intervention.

**HI 0271 Introduction to Russian History, Culture, and Civilization****3 Credits**

**Attributes:** H\_BF History Before 1750, H\_EU European History, WDIV World Diversity

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

This intermediate level history and culture course will introduce students to the multiple facets of Russian identity. Embracing the period from East Slavic settlements in the ninth century to contemporary Russia under Yeltsin, Putin and Medvedev, the course will survey major themes that contributed to the creation of the Russian archetype. The idiosyncrasies of Russia's geographic location, the enduring presence of Russian Orthodoxy, the complex relationship with the West, debates about "Russianness" among the Russian intelligentsia and the context of the Soviet Union and its disintegration, will be explored through literary texts, film, and significant works of art.

**HI 0272 Russia, 700-1700: History and Myth****3 Credits**

**Attributes:** H\_BF History Before 1750, H\_EU European History, WDIV World Diversity

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

This course is a survey of the eastern forest-steppe frontier of Europe (the territory of what is now Russia, Ukraine, and Belorussia) from its first pagan rulers up to Russian Tsar Peter the Great, covering such themes as Russian Orthodoxy, the Mongol invasion, the growth of the Russian State and the founding of the Russian empire.

<b>HI 0273 History and Culture of Central and Eastern Europe Since 1945</b>	<b>3 Credits</b>	<b>HI 0278 A Cultural History of China's Relations with the United States</b>	<b>3 Credits</b>
<b>Attributes:</b> H_AF History After 1750, H_EU European History		<b>Attributes:</b> H_AF History After 1750, H_NW Non-Western History, WDIV World Diversity	
<b>Prerequisite:</b> HI 0010 or CL 0115 or CL 0116.		<b>Prerequisite:</b> HI 0010 or CL 0115 or CL 0116.	
This core history course explores the extraordinary story of accommodation, resistance, and oppression in Central and Eastern European societies during the second half of the 20th century and the crucial role that cultural and intellectual forces played from the period of fascist and wartime occupation, through the communist period to the overthrow of communism and the development of new societies in the period 1985 to the present. The course interweaves film from Poland, the Czech and Slovak Republics, and Hungary, historical texts and documents, and memoirs and writings of key dissident intellectuals, such as Vaclav Havel.		International relations are often conceptualized as power rivalry, stressing conflicts and collaboration among nations in international politics and political economy. In this course the Chinese-American relations are viewed as a history of people and cultural exchange, not just a top-down history of diplomacy and politics. Using culture rather than politics or economics as a reference point, this course exams China-US relations since the 19th century to the present from the interaction of cultural exchanges between the Chinese and Americans. Topics include: Chinese Exclusion Act of 1882, Messengers of the 19th century from both, China and United States, The Internationalization of China and United States: Educators of the 1920s, the Journalists of the 1930s and 1940s, Literature Imagination in China and United Sates, and Popular Culture and Sino-American Relations. The format of the course includes lectures, group discussions, debates and audio-visual presentations.	
<b>HI 0274 Historical Perspectives on Contemporary Global Crises 3 Credits</b>		<b>HI 0279 China from the Classical Time to the 1800s</b>	<b>3 Credits</b>
<b>Attributes:</b> HACA Humanitarian Action Minor Context Course, H_AF History After 1750, H_NW Non-Western History, H_US U.S. History, WDIV World Diversity		<b>Attributes:</b> H_BF History Before 1750, H_NW Non-Western History, WDIV World Diversity	
<b>Prerequisite:</b> HI 0010 or CL 0115 or CL 0116.		<b>Prerequisite:</b> HI 0010 or CL 0115 or CL 0116.	
This course examines, using topical, geographic, and critical approaches, the interaction of the United States and western Europe with the rest of the world in the 20th century, giving considerable attention to non-Western perspectives such as those of Asia, Africa, Latin America, the Arab world, Russia, and Eastern Europe. The course also includes an introduction to the history of U.S. foreign relations, international organizations, social change in the developing world, and world systems theory.		To many people China is one of the most mysterious and intriguing civilizations. Its fascinating concepts of philosophy, government, religion, art, and science that formed several thousand years ago continue to influence the modern world. This course examines the history, culture, self-image, worldview, and the ideas and institutions that shaped China and its people from the classical time to the 1800s. It is difficult to cover several thousand years of Chinese civilization in one semester. However, after this course, students should emerge with basic knowledge of Chinese culture and people. This course is an analytical survey of major topics and themes in Chinese history and culture. The format of the course includes lectures, group discussion, debate, and audio-visual presentation.	
<b>HI 0275 Russia's Road to Revolution</b>	<b>3 Credits</b>	<b>HI 0280 The West and the Middle East</b>	<b>3 Credits</b>
<b>Attributes:</b> H_BF History Before 1750, H_EU European History, WDIV World Diversity		<b>Attributes:</b> H_AF History After 1750, H_NW Non-Western History, WDIV World Diversity	
<b>Prerequisite:</b> HI 0010 or CL 0115 or CL 0116.		<b>Prerequisite:</b> HI 0010 or CL 0115 or CL 0116.	
Topics in this course include the modernization of Russia since Peter the Great; the impact of Western culture in the 18th century; Catherine the Great as reformer; intellectual protest against autocracy and serfdom; revolutionary ferment: Slavophiles and Westerners; from populism to Marxism-Leninism; the revolution of 1905; the industrialization of Russia to 1914; and the revolutions of 1917.		This course examines Western and Middle Eastern relations from the 18th century to the present, relating recurring upheavals of the Middle East, including conflicts between ethnic-religious groups and economic classes, to structural transformations that have developed across two centuries. Topics include Western colonization and conquest; Middle Eastern nationalism; the Arab-Israeli conflict; the economics and politics of oil; and the Islamic revival.	
<b>HI 0276 St. Petersburg in Russian History</b>	<b>3 Credits</b>	<b>HI 0281 Portrait of the Arabs</b>	<b>3 Credits</b>
<b>Attributes:</b> H_AF History After 1750, H_EU European History, WDIV World Diversity		<b>Attributes:</b> H_BF History Before 1750, H_NW Non-Western History, WDIV World Diversity	
<b>Prerequisite:</b> HI 0010 or CL 0115 or CL 0116.		<b>Prerequisite:</b> HI 0010 or CL 0115 or CL 0116.	
Students explore the history of Russia from Peter the Great to the present through the political, social, and cultural heritage of Peter's city - St. Petersburg - Russia's "window on the west." St. Petersburg served as imperial Russia's capital from 1703 to 1918. After the consolidation of Soviet power, St. Petersburg (as Leningrad) continued to play a key role in 20th-century Russian social, political, and cultural history. The collapse of the Soviet Union in 1991 led to the rebirth of St. Petersburg as a cultural center. The course emphasizes historical sites and cultural accomplishments of St. Petersburg through the use of slides, video, and music.		This interdisciplinary course provides a broad introduction to Arab culture and society in the past and present, using novels, poetry, films, and scholarly studies to investigate contemporary issues and their relationship to a complex historical legacy. Topics include the formation of Arab identity; the relationship of city and countryside; women and the family; literature; the arts and architecture; and nation building.	

**HI 0284 20th Century Russia****3 Credits**

**Attributes:** H\_AF History After 1750, H\_EU European History, WDIV World Diversity

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

This course covers such major themes as the impact of the 1905 and 1917 revolutions; Lenin, War Communism, and the new economic policy; Stalin, collectivization, and the Great Purges; the Russian war experience and the Cold War; Khrushchev, reform, and de-Stalinization; Brezhnev, stagnation, and detente; Gorbachev, glasnost, perestroika, and political and economic crisis; the Revolution of 1987 to 1991; and post-Soviet Russia.

**HI 0285 Modern China: 1800 to Present****3 Credits**

**Attributes:** H\_AF History After 1750, H\_NW Non-Western History, WDIV World Diversity

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

This course examines the major developments in modern Chinese history from about 1800 to the present to show China's transformation from a semi-colonial country in the 19th century to a major player in world affairs today. Topics include the Opium Wars, the impact of imperialism on China and China's response to it, the revolutionary movements of the first two decades of the 1900s, the rise of nationalism and Chinese Communism, the anti-Japanese War, the history of the People's Republic of China, the current economic reform movement and social changes, and China's role in the new world order.

**HI 0286 The Rise of Modern Japan: 1800 to Present****3 Credits**

**Attributes:** H\_AF History After 1750, H\_NW Non-Western History, WDIV World Diversity

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

This course examines the transformation of Japan from the late Tokugawa period in the 1800s to the emergence of Japan as a post-industrial society. It focuses on historical forces and events, and on the efforts of Japanese women and men that have shaped Japan's transition from a late developing industrial nation during the Meiji period (1868-1912) to a great economic power in the 20th century. The dramatic social, political, economic, and cultural changes of the 1980s and 1990s receive attention. Students compare Japan's path to modernization with that of the West.

**HI 0288 Colonial Latin America, 1492-1800****3 Credits**

**Attributes:** CAOT Catholic Studies: Non-Religious Studies, H\_BF History Before 1750, H\_NW Non-Western History, LCEL LACS Minor: Elective, PJST Peace and Justice Studies, WDIV World Diversity

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

The course examines Indian cultures, Portuguese and Spanish institutions, and values on the eve of the conquests, including the clash of cultures and interests, and three ensuing centuries of New World dialectics: conquistadores, viceroys, colonists, priests, friars, Indian caciques and peasants, black slaves, and free mulattoes mutually interacting and forming, by 1800, a new civilization composed of varying hybrid cultures from the Rio Grande to Tierra del Fuego. The course also considers the Iberian colonies on the eve of the 19th-century revolutions for independence.

**HI 0289 Modern Latin America, 1800-Present****3 Credits**

**Attributes:** H\_AF History After 1750, H\_NW Non-Western History, LCEL LACS Minor: Elective, WDIV World Diversity

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

This course introduces students to the concrete actors and events that have shaped politics, culture, and society in Latin America from the nineteenth century wars of independence to the present. Through scholarly readings, primary source documents, literature, music, and film, we will explore the imprint of Spanish and Portuguese colonial rule, the struggles to consolidate nation-states, the efforts to "modernize" in the late nineteenth century, and the extremes that Latin America experienced during the twentieth century. Among the varied topics to be explored in detail will be labor and slavery, citizenship, changing gender roles, urbanization, mass politics and social revolution, and transitions from dictatorship to democracy. The course will also include a consideration of Latin America's changing relationship with the outside world, and particularly with its powerful neighbor to the north.

**HI 0297 Power, Politics, History: U.S.-Latin American Relations from the 1800s to the Present****3 Credits**

**Attributes:** H\_AF History After 1750, H\_NW Non-Western History, LCEL LACS Minor: Elective, LCSC LACS Minor: Spanish Culture and Literature, PJST Peace and Justice Studies, UDIV U.S. Diversity

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

In this course, students examine the political, economic, social, and cultural repercussions of US-Latin American relations from the mid-19th century to the present. We will study cases of overt US political intervention and conflict, as well as less dramatic but ongoing forms of influence. While we will seek to understand what has led the United States to intervene so frequently in Latin America, our work will also pay close attention to the multiple ways that social actors throughout the Americas have constructed their national and cultural imaginaries across time, and in dialogue with one another.

**HI 0298 Historical Geography****3 Credits**

**Attributes:** H\_AF History After 1750, H\_US U.S. History

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

Historical geography applies the tools of geography to the phenomena and events of the past. Maps, statistics, and an understanding of how people interact with the physical world allow the historical geographer to achieve a new perspective on historic events. This class will be grounded primarily in the historical geography of North America, the Caribbean, and Mexico, and will also consider the general topics of history of place, change over time, the nature and uses of maps, and spatial analysis.

**HI 0303 What If? Alternate History and the Historical****3 Credits**

**Imagination**

**Attributes:** H\_AF History After 1750, H\_EU European History, H\_RE History: Research Paper

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

What if the American Revolution had failed? What if the South had won the Civil War? What if Hitler had never been born? This seminar investigates why these and other counterfactual questions have increasingly been posed in works of Western popular culture in the last generation. In exploring the recent emergence of counterfactual history as a cultural phenomenon, we examine a wide range of speculative novels, films, television shows, comic books, plays, and historical essays in comparative analytical fashion. In the process, we attempt to arrive at general conclusions about how counterfactual narratives help us better understand the roles of causality and morality in history, as well as the broader workings of collective memory.

**HI 0304 The Holocaust in History and Memory****3 Credits**

**Attributes:** GMEL German Major or Minor Course, GMEN German Course Taught in English, H\_AF History After 1750, H\_EU European History, H\_RE History: Research Paper, JST Judaic Studies Minor, PJST Peace and Justice Studies

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

The Holocaust demands, yet stubbornly resists, historical understanding. This course addresses the Nazis' genocidal assault upon European Jewry and others by examining a wide range of factors that contributed to it. The course explores the roots of modern German anti-Semitism, the origins of Nazism, the establishment of the Nazi dictatorship, the sharpening of anti-Jewish measures during the Third Reich, and the escalation of persecution following the outbreak of World War II that culminated in the so-called Final Solution. Students consider the legacy of the Holocaust after 1945 by examining the postwar struggle to preserve its lessons in memory, the difficulty in finding adequate cultural means of representing its extreme dimensions, and the challenge of understanding the lessons that the event left for the postwar world.

**HI 0313 Godless: Atheism and Skeptical Thought in the West** **3 Credits**

**Attributes:** H\_BF History Before 1750, H\_EU European History, H\_RE History: Research Paper

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

The history of atheism – or whether atheism even has a history – is difficult to establish. Scholars have used a narrow definition of the term atheism to suggest its origins in the 18th century, or a broad definition to trace its antecedents back to classical antiquity. This course considers atheism within the tradition of skepticism, and leaves open for classroom debate the question of whether the thinkers studied – from Epicurus to Ingersoll, Diderot to Dawkins – represent a coherent tradition or merely a collection of radical challenges, each tied to its own time and place.

**HI 0315 Ireland Since the Famine****3 Credits**

**Attributes:** H\_AF History After 1750, H\_EU European History, H\_RE History: Research Paper

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

This course is an in-depth examination of political, social, religious, and economic developments in Ireland from 1850 to the present day. Up to 1921 the focus is on the entire island including Ulster. After 1921 the focus turns to the Irish Free State and later Republic (Eire), although developments in Northern Ireland are studied as they compare with the history of the southern republic and as they bear upon relations with it. Students examine the interaction of politics with religious and ethnic divisions, international relations, economic conditions, and cultural patterns, including education and social mores.

**HI 0323 England: Reformation to Revolution****3 Credits**

**Attributes:** H\_BF History Before 1750, H\_EU European History, H\_RE History: Research Paper

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

This course examines the changes in church, state, and society that took place in the British Isles from the reign of Henry VIII to the Glorious Revolution of 1688. These centuries saw the unification of England, Ireland, and Scotland under a single government, the development of that government from feudal kingship into Parliamentary-based bureaucracy, and the shattering of medieval Catholicism into a variety of different churches and doctrines. The course also examines the structure of Tudor-Stuart society and the cultural changes resulting from the Renaissance and the Scientific Revolution.

**HI 0324 Ancient Greece, Rome, and Africa****3 Credits**

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

The course examines the interaction between Greco-Roman civilization and ancient African civilizations, in the period from the sixth century BC to the sixth century AD. Focus is on: initial contacts between mainland Greece and Pharaonic Egypt; the period of Greek rule in Egypt and subsequent Greek expansion in Sudan and the Red Sea; initial contacts between Republican Rome and North Africa, and subsequent Romanization in that region; the period of Roman imperial rule in Egypt and subsequent Roman expansion in Sudan and the Red Sea; and the Byzantine diplomatic interaction with and role in Christianization of Nubia and Axumite Ethiopia.

**HI 0325 Athenian Democracy and Empire****3 Credits**

**Attributes:** H\_BF History Before 1750, H\_EU European History

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

This history seminar provides an in-depth exploration of classical Athens at the height of its power in the fifth century BC. Its focus is on close reading of the primary sources describing the rise and fall of Athens in this period. It places particular emphasis on the parallel rise of Athenian democracy at home and the Athenian empire overseas. It places secondary emphasis on the nature of Athenian intellectual discourse in this period. A final research project will engage modern scholarly debates on the nature of fifth-century Athens.

**HI 0331 American Revolution and the New Nation****3 Credits**

**Attributes:** ASHI American Studies: History, ASUP American Studies

Upper Level, H\_AF History After 1750, H\_RE History: Research Paper, H\_US U.S. History

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

An examination of the coming of the American Revolution and the transition from colonial to national status, this course discusses the military struggle itself and provides an assessment of the political, social, and economic effects of the Revolution. Topics include the Confederation period, the forming of the 1787 Constitution, and the Federalist era. Figures such as John Adams, Tom Paine, Jefferson, Hamilton, Madison, and Washington receive special attention.

**HI 0335 Civil War and Reconstruction****3 Credits**

**Attributes:** ASUP American Studies Upper Level, H\_AF History After 1750,

H\_RE History: Research Paper, H\_US U.S. History

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

The principal goal of this seminar will be to familiarize students with some of the most important aspects of the Civil War and Reconstruction period in the United States, including the close examination of some of the more important historiographical debates. Topics include: sectionalism, antebellum political parties, slavery, abolition, Civil War politics, Presidential and Congressional Reconstruction, and Redemption. Students will use primary and secondary resources to produce a significant research paper.

**HI 0337 Race, Violence, and Punishment in the United States, 1865-1976** **3 Credits**

**Attributes:** ASHI American Studies: History, ASUP American Studies Upper Level, BSFC Black Studies Focus Course, H\_AF History After 1750, H\_US U.S. History

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

Beginning with Black Reconstruction in the South and ending with the Supreme Court's temporary ban on capital punishment in Furman v. Georgia (1972), this intensive reading, writing, and research seminar explores the history of lynching, capital punishment, and other forms of racial violence in the United States. Using primary sources, it charts the spread of extra-legal violence in the aftermath of the American Civil War to understand the social, economic, and political forces that fueled such violence. It explores the complex relationship between lynching and capital punishment through the eyes of contemporaries as well as through the research of scholars. Students will also engage in a semester-long project to research, record and document instances of lynching, extra-legal violence, and capital punishment as part of a final research paper.

**HI 0346 Saints, Sinners, and Sisters: Women and Religion in American History** **3 Credits**

**Attributes:** H\_AF History After 1750, H\_RE History: Research Paper, H\_US U.S. History, WSGF Women, Gender, and Sexuality Studies: Gender Focused

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

Why have women comprised the majority of American religious groups? What sorts of gender structures are central to religious groups in America? How have women's relationships to religious institutions changed over time? This course spans from the colonial era to the twentieth century; this course will focus on key periods in the formation of American women's relationship to religious ideas and institutions. Topics include: Native American women and colonialism; Puritan Women, Quakerism, Witchcraft Accusations, Evangelicalism American Catholic Life, Black Churches, Social Movements, Spiritualism, the Mormon Church, Jewish women in America, Fundamentalism, Muslim Women, Modern Witchcraft, Goddess Movements, and Buddhism.

**HI 0349 The 1930s in America** **3 Credits**

**Attributes:** H\_AF History After 1750, H\_RE History: Research Paper, H\_US U.S. History, UDIV U.S. Diversity

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

This research seminar on the Great Depression and New Deal will use primary and secondary sources to focus on key events and different historical interpretations of the United States during this decade. The economic crisis defined the decade and propelled political, economic, social, and cultural changes. This era has immense relevance to today's political debates – the federal government's role in regulating the free market; the weakness of the labor movement; unemployment and the persistence of poverty; the increasing wealth gap; the increasing racial edge in these issues. All have their origins in the policies first forged during the New Deal.

**HI 0356 History of the Cold War** **3 Credits**

**Attributes:** ASHI American Studies: History, ASUP American Studies Upper Level, H\_AF History After 1750, H\_EU European History, H\_RE History: Research Paper, H\_US U.S. History

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

This intensive reading, writing, and discussion seminar focuses on the origins, deepening, and decline of the Cold War between the United States and the Soviet Union from 1917 to 1991, covering such issues as Lenin-Wilson ideological antagonism, the shift from Grand Alliance to Cold War, the arms race, the rise and fall of detente, and the collapse of the Cold War order in Europe and the Soviet Union from 1989 to 1991. The course attempts to approach the topic by understanding both sides of the conflict, studying decisions, policies, and actions in a bilateral fashion.

**HI 0366 Gender, Culture, and Representation: Women in China and Japan, 1600 to Present** **3 Credits**

**Attributes:** H\_AF History After 1750, H\_NW Non-Western History, H\_RE History: Research Paper, WDIV World Diversity, WSGF Women, Gender, and Sexuality Studies: Gender Focused

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

Are Chinese and Japanese women mere victims of a patriarchal society? Do socialist revolution and industrial modernization liberate women? This seminar examines those questions by studying the historical changes and continuities in the experience of women in China and Japan from approximately the 17th century to the present. The construction and representation of gender relations in China and Japan represent complex processes with many changes. Using verbal and visual texts, this course considers women's lives and their struggles to represent themselves in both societies as well as the historiography on those subjects.

**HI 0367 East Asia in 20th-Century American Wars** **3 Credits**

**Attributes:** ASHI American Studies: History, ASUP American Studies Upper Level, H\_AF History After 1750, H\_NW Non-Western History, H\_RE History: Research Paper, WDIV World Diversity

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

During the 20th century the United States fought three wars in East Asia: the Pacific War, the Korean War, and the Vietnam War. How did the East Asians perceive and react to the wars? How did the wars affect people's lives and societies in East Asia? How did the wars affect postwar relations between the United States and East Asia? Did race, culture, and ethnicity play significant roles in these wars? This course examines those questions by studying East Asia in the three American wars as an oral and social history. The course focuses on the human dimensions of the wars as experienced by those East Asians who fought and lived through them.

**HI 0368 Ideas in Action: Decolonization in World History** **3 Credits**

**Attributes:** H\_NW Non-Western History

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

This seminar explores the intellectual history of "decolonization," the multifaceted process marked by the collapse of longstanding European empires and the emergence of independent nation-states in Africa, Asia, and the Caribbean in the mid-twentieth century. The central assumption of intellectual history is that ideas are key drivers of historical change. Conventional intellectual history courses engage with a narrow canon of European thinkers. This course approaches key figures from the colonial and postcolonial world, such as Gandhi and Fanon, as important ideological innovators integral to world history. Our main concern will be the intellectual ferment inaugurated as colonized peoples sought first to make sense of colonialism and then debated the meaning of, and means of achieving, freedom and liberation.

**HI 0371 Arab-Israeli Conflict****3 Credits**

**Attributes:** H\_AF History After 1750, H\_NW Non-Western History, WDIV World Diversity

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

The course traces the Arab-Israeli conflict from the end of the 19th century until the present, emphasizing the political and socioeconomic transformation of Palestine as Zionists and Palestinian Arabs struggled for political sovereignty in the same land. Topics include Anti-Semitism and the Birth of Zionism; the British Mandate; the creation of Israel; the relationship between Israel and the Arab states; the Israeli occupation of the West Bank and Gaza; Palestinian resistance; Israel's war in Lebanon; diaspora politics; representations of the conflict in film and pop culture; and prospects for the future.

**HI 0372 Terrorism in History****3 Credits**

**Attributes:** H\_AF History After 1750, H\_EU European History, H\_NW Non-Western History, PJST Peace and Justice Studies, WDIV World Diversity

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

This course examines terrorism as it has been perpetrated by individuals, political-military groups, and states of varying political ideologies. Topics include political violence in antiquity and medieval times; the French Revolution; terrorism, anarchism, and Marxism; terrorism and national liberation; and terrorism and religion.

**HI 0373 History of North Africa Since 1700****3 Credits**

**Attributes:** H\_NW Non-Western History, H\_RE History: Research Paper, WDIV World Diversity

**Prerequisites:** HI 0010 or CL 0115 or CL 0116; one 200-level history course or CL 0115 or CL 0116.

The region historically known as the Barbary Coast or North Africa today comprises five states: Mauritania /Western Sahara, Morocco, Algeria, Tunisia, and Libya. Bordered by the Mediterranean Sea on the north and the Sahara desert on the south, this region lay at the crossroads of European, African, and Middle Eastern civilizations. The course explores the countries' individual histories and inter-related regional topics such as piracy, Christian captivity narratives, the trans-Saharan slave trade, colonialism, national liberation and decolonization. Students investigate violence, power, identity, foreign domination, and the challenges these pose for the writing of history.

**HI 0383 Food, Consumption, and Commodities in Latin America, 1500 to the Present: From Chocolate to Cocaine****3 Credits**

**Attributes:** H\_NW Non-Western History, LCEL LACS Minor: Elective, WDIV World Diversity

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

This upper level research seminar examines food and commodities as a critical part of the social and cultural history of Latin America. Through historical texts, cookbooks, literature, film, and food tastings, we will explore the history of food production, commodification, and consumption in Latin America, while paying close attention to the ways that cuisine has shaped cultural identity, social difference, and nationalisms over time.

**HI 0385 Comparative Russian Revolutions****3 Credits**

**Attributes:** H\_AF History After 1750, H\_EU European History, H\_RE History: Research Paper

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

An intensive reading, writing and discussion seminar studying in some depth the background, origins, development, and outcomes of two Russian revolutionary periods of the 20th century: the interrelated upheavals of 1905 to 1917, resulting in the overthrow of the tsarist regime and its replacement by the Bolsheviks; and the reform, collapse, and transformation of the Communist government of the Soviet Union from Mikhail Gorbachev to the present. In the process of two in-depth examinations, the course explores contrasts among the social, economic, political, and cultural forces at work in the two revolutionary periods.

**HI 0391 The Meanings of History****3 Credits**

**Attributes:** H\_AF History After 1750, H\_EU European History, H\_NW Non-Western History, H\_US U.S. History

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

This upper-division seminar for juniors and seniors analyzes the ideas of seminal Western and non-Western thinkers; historians and philosophers who have had a profound influence on historical understanding and the practice of historians. Topics include the following questions: What is history? To what extent has the understanding of history changed in various times, places, and cultures? Are "scientific" history and the discovery of objective truth possible? Do stable civilizational identities exist and what value do such concepts have for historical understanding? The course examines the contemporary political, social, and cultural relevance of these and comparable questions through intensive readings, discussions, and analytical papers.

**HI 0395 Internship****3 Credits**

**Prerequisite:** HI 0010 or CL 0115 or CL 0116; junior or senior standing.

Majors work a minimum of eight hours per week during the semester at the Fairfield Museum and History Center, the Bridgeport Public Library Historical Collections, or a similar institution. An intern's work at these sites may include researching and mounting an exhibit, cataloging manuscript and artifacts collections, or organizing and conducting historical walking tours. Training in required skills is provided at the site. Under the supervision of a history department faculty member, interns write a research paper based on the work of the internship. Enrollment only by permission of the department Internship Coordinator.

**HI 0397 Special Topics (Shell)****3 Credits**

**Prerequisites:** HI 0010 or CL 0115 or CL 0116; one 200-level history course or CL 0115 or CL 0116; junior or senior standing.

This course offers an in-depth investigation of a significant historical problem or topic, conducted in a seminar format. The professor teaching the course chooses the topic.

**HI 0399 Independent Study****1-3 Credits**

**Attributes:** H\_RE History: Research Paper

**Prerequisite:** HI 0010 or CL 0115 or CL 0116.

Open to juniors and seniors only, this course provides an opportunity for advanced students to develop critical reading skills and writing ability in a tutorial arrangement with a chosen professor. Normally, the course results in a serious paper of publishable quality in student-centered journals (15 to 20 pages). Students arrange for independent study during registration period of the semester prior to the one in which they wish to take the course by applying to a professor under whose direction they wish to study. All independent study must have the concurrence of the department chairperson. Students may take only two independent studies.

## Honors (HR)

### HR 0100 Ideas That Shaped the West

**4 Credits**

This team-taught lecture/seminar course examines selected ideas or themes from Western intellectual history, focusing on developments in philosophy, society, science, and the arts. The ideas selected vary from course section to course section.

### HR 0101 Minds and Bodies

**4 Credits**

This team-taught lecture/seminar course examines constructions of the human person, and the social reflections of these constructions, in Western culture. The ideas selected vary from course section to course section.

### HR 0104 Enduring Questions

**3 Credits**

This team-taught course explores major questions persistent throughout human history. It provides an interdisciplinary opportunity to ask about the nature of humanity and reality, the meaning and purpose of existence, and the relationship between the individual and the wider world.

### HR 0198 Special Topics

**3 or 4 Credits**

This course offers an in-depth investigation of a significant topic or question, conducted in a seminar format. The professor(s) teaching the course choose(s) the topic. This course is generally limited to first year students, with exceptions made as needed.

### HR 0200 Challenges to the Western Tradition

**3 Credits**

**Attributes:** UDIV U.S. Diversity

This course examines alternatives to the configuration of knowledge, art, power, and justice in the classical, majority culture of the West by considering critical voices traditionally marginalized in that culture.

### HR 0201 Non-Western Culture

**3 Credits**

**Attributes:** WDIV World Diversity

This course examines alternatives to the configuration of knowledge, art, power, and justice in the classical, majority culture of the West by investigating the history, worldview, and assumptions of a non-Western culture.

### HR 0202 Honors Seminar

**3 Credits**

This seminar, offered in one of the traditional disciplines, seeks to cultivate the skills of critical thinking, cogent argumentation, and effective writing, all by attending to a particular subject matter. Honors students earn six credits in HR 0202 by completing one version of the seminar in their second year of honors coursework and another version of the seminar in their third year of honors coursework. A complete title, reflecting the seminar's particular subject matter, appears on the student's transcript. Students may not enroll in any section of HR 0202 offered in a discipline in which they major or minor.

### HR 0204 Emerging Questions

**3 Credits**

This course explores new questions emerging in changing modern contexts. It invites students to consider how new paradigms change human relations, how new discoveries change our understanding of the world, and how these changes are shaping our future.

### HR 0298 Special Topics

**3 Credits**

**Prerequisite:** HR 0100.

This course offers an in-depth investigation of a significant topic or question, conducted in a seminar format. The professor(s) teaching the course choose(s) the topic. This course is generally limited to sophomores, with exceptions made as needed.

### HR 0300 Interdisciplinary Inquiry

**3 Credits**

This team-taught course stresses the value of interdisciplinary approaches to scholarly inquiry by investigating a wide-ranging theme from the perspective of at least two disciplines. Possible themes treated in a given year are progress and its critics, genius and creativity, and the city in the American imagination.

### HR 0304 Finding Answers

**3 Credits**

This team-taught course offers a survey of theories of knowledge, research methodologies, data collection practices, and analytical methods from disciplines across all undergraduate fields. It aims to arm students with a wide array of techniques for engaging in their own original research.

### HR 0398 Special Topics

**3 Credits**

**Prerequisite:** HR 0200 or HR 0201.

This course offers an in-depth investigation of a significant topic or question, conducted in a seminar format. The professor(s) teaching the course choose(s) the topic. This course is generally limited to juniors, with exceptions made as needed.

## Humanitarian Action (HA)

### HA 0298 Humanitarian Action Internship

**3 Credits**

**Attributes:** HASM Humanitarian Action Minor Skills/Method Course

Students gain first-hand experience through placement with a relevant international organization, non-profit, media and business, or government agency focused on humanitarian crises and disaster response.

Typically, an internship requires 10 to 15 hours per week on site. Other requirements include an e-portfolio containing reflections about readings, meetings with internship coordinator and peers and a final reflection paper. An on-site supervisor and Humanitarian Action professor evaluate student work. Open to juniors and seniors only, by permission of the minor director. Requires an overall GPA of 3.0 or higher.

### HA 0300 Humanitarian Action Capstone

**3 Credits**

**Prerequisites:** AE 0272 or HI 0270 or PO 0272; completion of three Humanitarian Action electives; junior or senior standing.

This capstone course is a culminating experience for students minoring in Humanitarian Action. It provides students with the opportunity to engage with enduring questions that they have encountered throughout their coursework. Through a process of reflection and discernment facilitated during each class meeting, students will identify a research topic for a major paper that integrates the student's coursework, internship and/or extra-curricular experiences in the minor.

## Humanities (HU)

### HU 0201 Technical Skills for Liberal Arts Majors

**3 Credits**

Students today will need skills in a variety of computer programs and software applications. This course is designed for those in the liberal arts (humanities and social or behavioral sciences) who will need these technical skills for their future workplace. Specific skill sets include software for word processing, spreadsheet, presentation, conferencing, web page coding, and web page design; other software may be included. The course serves those students going into business, publishing, non-profit careers and a variety of other enterprises for which the liberal arts training must be augmented with specific cyber-related technical competence. Open to students with majors in the humanities or social/behavioral sciences only.

**HU 0301 Humanities Institute Seminar**

The Humanities Seminar is a research-oriented mentorship program, focused on the needs of excellent undergraduate humanities majors or minors, who are contemplating graduate work in the humanities or other humanities-oriented research careers. The seminar is open to students who have become Student Fellows by application to the Humanities Institute. The seminar course, comprised of both cohort and mentoring experiences, will normally occur in the spring semester under the guidance of the faculty mentor. Substantial independent work is expected of Student Fellows and the anticipated outcome will be a lengthy research paper or equivalent project. Enrollment by permission only.

**3 Credits**

## **Information Systems (IS)**

**IS 0100 Introduction to Information Systems****3 Credits**

This course helps students understand the role of Information Systems in the contemporary business environment. It introduces them to the use of information systems concepts and techniques in solving a wide range of business problems. Working in small teams, students develop, analyze, and present solutions to a business problem using information technology.

**IS 0135 Fundamentals of Web Design****3 Credits**

Students learn the theory and practice of front-end web design. Theoretical content will primarily focus on website design, with a heavy emphasis on developing sites that conform to standards and are responsive to the needs of practical applications and mobile devices. Hands-on work will help develop technical skills, such as HTML, CSS, XML, and other web client technologies. Students will learn to use a professional-quality toolset and to follow generally accepted best practices. The course includes weekly web-programming assignments and a semester project.

**IS 0210 Fundamentals of Business Analytics****3 Credits****Attributes:** BUEL Business Elective

**Prerequisite:** Junior or senior standing; EC 0278 or MA 0017 or MA 0217 or PY 0201 or SO 0221.

This course introduces fundamental knowledge and essential skills in business analytics, including modeling and analyzing data using spreadsheet software, such as Excel and its add-ons, as well as tools for optimization, descriptive analytics, visualizing and exploring data, predictive modeling, regression analysis, time series analysis, portfolio decisions, risk management, and simulation. Business models relevant to finance, accounting, marketing, and operations management are set up and solved, with managerial interpretations and "what if" analyses to provide further insight into real business problems and solutions.

**IS 0240 Systems Analysis and Logical Design****3 Credits****Prerequisite:** IS 0100.

This course focuses on the introduction of new systems and technology into the firm. Students learn to analyze and design information systems to meet specific business needs. Coverage includes structured and object-oriented methodologies, with an emphasis on current best practice. CASE tools employing the Unified Modeling Language are used as appropriate. As part of a semester project, students analyze requirements for an information system of moderate size and complexity, and then architect and evaluate alternative systems that meet the requirements. The semester projects are "juried" by a team of experienced professionals from the field.

**IS 0260 Database Systems****3 Credits****Prerequisite:** IS 0100.

This course introduces the concepts of data modeling, as they apply in the business world, within the context of a client/server environment. Topics include relational databases, object-oriented databases, and Internet databases, along with the Structured Query Language that is used to create and manipulate databases. Students are also introduced to the architecture of Data Warehouses. Formerly IS 0340.

**IS 0310 E-Business Applications****3 Credits****Prerequisite:** IS 0100.

This course examines e-business applications such as knowledge management, enterprise resource planning (ERP), customer relationship management (CRM), and mobile applications in inter-organizational, national, and global business environments. Students explore new e-business applications, the economics of e-business, value chains and value networks, related legal and ethical issues, information privacy and security, disaster planning and recovery, and the impact of emerging e-business and mobile applications. The course includes a brief introduction to technical architecture, technology, solutions, and financing required for effective e-business applications. Students investigate emerging opportunities, challenges, and trends through interactive team exercises, case studies, and individual research projects and presentations.

**IS 0315 Data Mining and Applications****3 Credits****Attributes:** BUEL Business Elective**Prerequisite:** IS 0210.

This course provides the students with an understanding of the practices of data mining, with a special focus on business analytics. To assure the practical relevance of this course, this course focuses on the applications of techniques and tools that help realize data mining in terms of business analytics and actionable intelligence. The pillar of this course is laid out along with the well-accepted data mining process: starting with data collection techniques, such as collecting/extracting web/text/social media data from heterogeneous resources; following with the discussions toward data preparation techniques (quality and relevance control). Applications of these techniques and tools on different subareas, such as web/text/social media analytics are covered.

**IS 0320 Systems Design and Implementation****3 Credits****Prerequisites:** IS 0260, IS 0240; one programming course.

Students work in collaborating teams to design and build a networked information system. Emphasis is placed on development as an ongoing iterative and incremental process. Standard CASE tools, design patterns, and business practices are used to ensure proper communication and integration across development teams.

**IS 0391 Internship****3 Credits****Prerequisite:** Junior standing.

Students may take up to two semesters of a department-approved internship. Students must have a GPA of 2.5 or higher.

**IS 0392 Internship****3 Credits****Prerequisite:** Junior standing.

Students may take up to two semesters of a department-approved internship. Students must have a GPA of 2.5 or higher.

**IS 0393 Internship****1 Credit****Prerequisite:** Junior standing.

Students may take up to two semesters of a department-approved internship. Students must have a GPA of 2.5 or higher.

<b>IS 0394 Internship</b>	<b>1 Credit</b>	<b>IS 0520 Project Management</b>	<b>3 Credits</b>
<b>Prerequisite:</b> Junior standing.		<b>Prerequisite:</b> IS 0500 or OM 0400.	
Students may take up to two semesters of a department-approved internship. Students must have a GPA of 2.5 or higher.		This course explores the process and practice of project management. Topics to be covered include project lifecycle and organizations, teambuilding and productivity, task scheduling and resource allocation, and progress tracking and control. Cases will be used to consider the implications for change management, consulting, IT implementation, and other related disciplines. Small team projects and experiential exercises will also be used to provide an active learning environment. This course is designed to count toward professional project management certification.	
<b>IS 0395 Systems Project</b>	<b>3 Credits</b>	<b>IS 0550 Business Analytics and Big Data Management</b>	<b>3 Credits</b>
<b>Prerequisites:</b> IS 0240; Senior status.		<b>Prerequisites:</b> BA 0540, BA 0545.	
This course applies skills that have been learned in the information systems major and the business core. These skills span the areas of project management, systems analysis, systems design, business communication, organizational behavior, software development, operations management, and business processes. Students demonstrate their knowledge by engaging in a student-defined project that provides a business solution for a client. The primary deliverables for the course are a system or a set of alternatives to solve the business problem, along with all related documentation.		This course will survey state-of-the-art topics in Big Data, looking at data collection (via smartphones, sensors, the Web), data storage and processing (scalable relational databases, Hadoop, Spark, etc.), extracting structured data from unstructured databases, systems issues (exploiting multicore, security), analytics (machine learning, data compression, efficient algorithms), data visualization, and a range of applications. Each of these five modules will introduce broad concepts as well as provide the most recent developments in the area.	
<b>IS 0397 Seminar in Information Systems</b>	<b>3 or 6 Credits</b>	<b>IS 0585 Contemporary Topics in Information Systems and Operations Management</b>	<b>3 Credits</b>
This special program involving independent study and research is also intended for students accepted in an approved internship. This course, administered by the Office of the Dean, requires a formal application by the student to the faculty project advisor and the department chair. The course does not count toward fulfilling the requirements for the information systems major, but does count toward meeting University credit requirements. Open only to senior Information Systems majors. Enrollment by permission only.		<b>Prerequisite:</b> IS 0500.	
<b>IS 0398 Seminar in Information Systems</b>	<b>3 or 6 Credits</b>	This course draws from current literature and practice on information systems and/or operations management. The topics change from semester to semester, depending on student and faculty interest and may include: project management, e-business, management science with spreadsheets, e-procurement, executive information systems, ethics, and other socio-economic factors in the use of information technology.	
<b>IS 0399 Independent Study</b>	<b>3 Credits</b>	<b>IS 0598 Independent Study in Information Systems and Operations Management</b>	<b>3 Credits</b>
Students pursue topics of special interest through independent study, research, and/or completion of an information systems project under the supervision of a full-time faculty member. The department chair and dean must approve the work. The student and a faculty project advisor who agrees to conduct the work according to a mutually agreeable schedule must complete an application form. Once the form is completed and submitted to the registrar, the student may register for the course, which is taught during the fall and spring semesters. If any work is expected to occur at any time other than the semester registered, students must obtain the approval of the faculty project advisor and the department chair prior to commencing of any work. Normally, students completed at least two advanced information systems courses before taking this course.		This course provides an opportunity for students to complete a project or perform research under the direction of an Information Systems and Operations Management (ISOM) faculty member who has expertise in the topic being investigated. Students are expected to complete a significant project or research paper as the primary requirement of this course. Enrollment by permission of the ISOM Department Chair only.	
<b>IS 0500 Information Systems and Database Management</b>	<b>3 Credits</b>	<b>ID 0153 Healthcare in Cuba</b>	<b>4 Credits</b>
This course introduces the basic concepts and tools relevant to information systems and database management, and their enabling roles in business strategies and operations. Case studies are used to facilitate discussions of practical applications and issues involving strategic alignments of organizations, resource allocation, integration, planning, and analysis of cost, benefit and performance in light of the big data challenges. Specific emphases involve database design and implementation and emerging strategies and technologies such as business intelligence, big data management, web security, and online business analytics.		<b>Attributes:</b> HSTE Health Studies: Traditions, Delivery, and Ethics, WDIV World Diversity This interdisciplinary course examines Cuba's history, international relations, political structure, culture, and economy. The theme of healthcare permeates all course components. A one-week immersion in Cuba provides a cultural exchange opportunity from which you'll gain perspectives on non-Western ways of life. Activities in Cuba include daily lectures by Cuban scholars and policy makers on various health-related topics (universal healthcare, health tourism, medical internationalism, health innovations, reproductive health, etc.) and related site visits (hospital, primary health clinic, etc.) in addition to cultural events and sites. Students will develop an independent research project that culminates in a final presentation and paper.	
		<b>Note: Interior Design courses are open only to Interior Design Certificate students. They are not open to matriculated undergraduate students.</b>	

## Interior Design (IN)

**Note: Interior Design courses are open only to Interior Design Certificate students. They are not open to matriculated undergraduate students.**

<b>IN 0107 Color Design</b> <b>Prerequisite:</b> IN 0119. Students develop proficiency in discerning basic color differences and visualizing color application. Students learn color mixing and identification, color scheme planning, pattern and scale.	<b>3 Credits</b>	<b>IN 0121 Sustainable Design</b> Simplifying the complex world of sustainable design and how it relates to global environmental issues, climate change, and health. Course topics include: an overview of the big picture of Sustainability, Case Studies, the LEED Rating System - Best Practice Systems and the Integrative Design Team, the impact of design and construction practices and specification of non-toxic materials on the health of occupants and the environment, guest speakers, and field trips for "green resources."	<b>2 Credits</b>
<b>IN 0109 Basic Computer-Aided Design (CAD)</b> <b>3 Credits</b> An introduction to computer aided drafting and design concepts, methods, and skills used in Interior Design. Students learn to use the basic commands of AutoCAD software to produce architectural and interior drawings including floor-plans, elevations, sections, and details. Students taking this course should note that the class will be taught using the Windows PC operating system. Students should bring their own laptop with AutoCAD LT software installed to each class.		<b>IN 0122 Rendering</b> <b>Prerequisite:</b> IN 0119. A rendered drawing relies on tone as the basis for the perception of form. Using the media of pencil, colored pencil, pen and ink, markers, watercolor and their various combinations, students learn to achieve a higher degree of professionalism in interior design presentations and perspective drawings.	<b>3 Credits</b>
<b>IN 0110 Interior Design I</b> <b>3 Credits</b> <b>Prerequisite:</b> IN 0119. Students develop the judgment and skill needed to conceive and execute a successful residential interior design project. Through weekly design problems, students integrate aesthetics and function. Students experience the issues and difficulties a professional must face, learning the appropriate steps from client interview to presenting accurate scale drawings in plan and elevation.		<b>IN 0209 3-D Architectural Computer-Aided Design (CAD)</b> <b>3 Credits</b> Building on knowledge gained in Basic CAD, students learn to use three-dimensional software to create architectural floor plans, three dimensional walls and object display control. Creating structures and 3-D walkthroughs will also be covered. Note: This course is available by transfer credit only.	
<b>IN 0111 Textiles for Interiors</b> <b>3 Credits</b> A survey of textile manufacture from fiber to finished fabric with emphasis on the textile's attributes for determining quality and usage. The student is introduced to construction methods, dyeing, printing, and finishing processes with discussion of various applications.		<b>IN 0211 Interior Design II</b> <b>3 Credits</b> <b>Prerequisite:</b> IN 0110. Building on the design fundamentals of Interior Design I, students continue to practice space planning, and learn to prepare and deliver persuasive presentations. Class covers tools designers have to work with, including color, special finishes, building materials, furnishings, fabrics, window treatments, floor coverings, and accessories, with special emphasis on kitchen and bath design. Creativity is fostered through a series of residential design problems reinforcing the logical nature of the design process.	
<b>IN 0113 History of Furniture I</b> <b>3 Credits</b> This course examines the major styles of furniture from Egyptian through the Renaissance and Baroque (15th-17th centuries) to the Rococo and Neoclassical periods (early 19th century). Examples will be drawn mainly from Italy, France, England, and Germany, with emphasis on mastering the specific features of each style and on understanding the ideas that influenced the furnishings in each era.		<b>IN 0212 Interior Design III</b> <b>3 Credits</b> <b>Prerequisite:</b> IN 0211. Students document, by blueprint and/or photos, an existing residential space, including complete floor plans, furniture detailing prospective drawing of one space, lighting plans, and detailed presentation boards, showing all fabrics, furniture, wall coverings and rugs obtained solely from New York showrooms.	
<b>IN 0114 History of Furniture II</b> <b>3 Credits</b> This course examines American furniture from 1650-1830 and its relationship to English prototypes. The course covers Victorian furniture styles through contemporary trends in both the U.S. and in Europe. Emphasis is on learning the characteristics of each period as well as a discussion of the materials culture of the time.		<b>IN 0213 Interior Design IV</b> <b>3 Credits</b> <b>Prerequisite:</b> IN 0212. Through a series of lectures, hands-on developmental planning and individual guidance, students deal with different topics including: major residential/small commercial space planning and remodeling, kitchen and bath design with plumbing and HVAC, architectural and furniture design with detailing and construction drawings, estimating and application of design materials including flooring, wall-covering, window treatments and upholstery. This knowledge will be applied to the renovation of an existing New York City brownstone.	
<b>IN 0117 History of Architecture and Interior Design</b> <b>3 Credits</b> A survey of architecture and interiors from antiquity to the present, and the cultural factors affecting them. Among the civilizations, periods, and styles to be included are Egypt, Greece, Rome, the Middle Ages, the Renaissance, Baroque, Rococo, and the Modern.		<b>IN 0214 Commercial Design</b> <b>3 Credits</b> <b>Prerequisite:</b> IN 0213. Students learn the importance of the surrounding environment in a working situation and professional techniques for planning and executing business interiors. Readings, lectures, project organization, and studio assignments stress the principles of good design and the practical skills needed to function professionally.	
<b>IN 0119 Drawing and Presentation</b> <b>3 Credits</b> This course is an introduction to drafting techniques for the preparation of architectural interior drawings emphasizing drafting and detailing room plans, elevations and sections. Course covers drafting for architectural purposes, drawing for client presentation, techniques of presentation, and board mounting. A final project with finished floor plans, elevations, and sample boards is required.			

**IN 0215 Lighting for Interiors****3 Credits****Prerequisite:** IN 0119.

An introduction to various types of lighting equipment and their characteristics. Students learn how to accurately interpret professional lighting catalogues, to calculate appropriate light levels and to apply this knowledge to a professional lighting plan.

**IN 0216 Kitchen and Bath Design****3 Credits****Prerequisite:** IN 0119.

This specialty course addresses the specific principals of kitchen and bath design with emphasis on function, style, health and safety. Attention will be paid to the industry guidelines as established by the National Kitchen and Bath Association. There will be segments on products and materials, lighting and plumbing. Design and drafting principals will be a major emphasis of this overview course and will touch on universal design. There will be an opportunity to design an actual case study of a kitchen/bathroom. This introductory course will expose students to the knowledge and professionalism required to be a successful kitchen and bath designer.

**IN 0218 Interior Design V****3 Credits****Prerequisite:** IN 0213.

Students begin to deal with the more technical aspects of contract design, commercial design and construction, including: large-scale space planning, structural coordination, barrier-free design, building codes/regulations and contract documents. This is an online course.

**IN 0219 Interior Design VI****3 Credits****Prerequisite:** IN 0218.

Through lecture, reading and a series of design problems, students will continue to increase their skill in the application of the many aspects of contract design. The semester will culminate in the execution of a large-scale commercial space planning project.

**IN 0220 Perspective Techniques****3 Credits****Prerequisite:** IN 0119.

Existing design projects are turned into three-dimensional interior perspectives, which are invaluable in communicating ideas to the client. Completed drawings will become part of the student portfolio.

**IN 0221 Business of Interior Design****1 Credit**

A series of six sessions, each conducted by a different practicing interior designer who will share his or her experiences in developing a business and dealing with the many practical issues related to the interior design profession.

## **International Business (IB)**

**IB 0580 Study Abroad****3 Credits**

This program provides students with the opportunity to supplement their class lectures and assignments on a specific topic during a visit to specific world region. The program offers students the invaluable experience of visiting a company and meeting business leaders in another country to learn about their culture and business practices.

## **International Studies (IL)**

**IL 0050 People, Places, and Global Issues****3 Credits****Attributes:** BUEL Business Elective, PJST Peace and Justice Studies, WDIV World Diversity

This course introduces students to some of the fundamental concepts of International Studies. Major world regions and selected countries within them are discussed with respect to the people, and their physical, demographic, cultural, political, and economic characteristics. Several concepts and global issues are explored, among which the physical environment, conflict, inequality, global interconnectedness, and the movement of goods and people across borders are central. This course will emphasize contemporary events, particularly as they relate to the fundamental themes covered.

**IL 0051 Introduction to International Relations****3 Credits****Attributes:** HACA Humanitarian Action Minor Context Course, PJST Peace and Justice Studies, PMIR Politics Major: International Relations

This course introduces International Relations (IR) theories to students, providing concepts, frameworks and approaches that will help them make sense of global politics historically and today in a systematic and critical manner. The goal of the course is to familiarize students with these tools and to help them use them to understand and address challenges at a global scale, particularly different manifestations of violence, development and social injustice, including from war to economic, social, gendered, and political marginalization.

**IL 0052 Culture and Political Economy****3 Credits**

This course examines the ways in which global political economic dynamics impact local cultures. Students will begin with classic texts in social theory, examine how this theory informs contemporary debates, and look to small-scale societies in the Global South for an intimate, ethnographic perspective of our global era.

**IL 0053 Introduction to Economics****3 Credits**

This course introduces the fundamentals of economic analysis from individual consumer behavior to the choices firms make, as well as framing the aggregate economy and indicators that measure global economic activity. It will cover the basics of both micro and macro economic study. Supply and demand, market structures, international trade, fiscal, and monetary policy are introduced. Students may petition for this course to also count toward a major or minor in economics.

**IL 0150 International Operations of Non-Profits****3 Credits****Attributes:** BUEL Business Elective, HASM Humanitarian Action Minor Skills/Method Course, WDIV World Diversity

This course introduces students to the environment of international not-for-profit organizations. The course examines the relationships between non-profits and the private and public sectors. Accountability is discussed in terms of short-term financial efficiencies and long-term program quality assessment. Course objectives include understanding internal and external environments in which non-profits operate; the relationship between non-profits with the public and private sectors; acquiring skills for accounting and financial information in the non-profit sector; understanding roles, performance and accountability issues of nongovernmental organizations in international development assistance; and developing case study analyses.

**IL 0151 Gender, War, and Peace****3 Credits**

**Attributes:** PMIR Politics Major: International Relations, WDIV World Diversity, WSGF Women, Gender, and Sexuality Studies: Gender Focused This course examines the complexities and gendered impact of war on children, family and other social actors, drawing on a wide range of theories, concepts and case studies on violence, conflict escalation and peacebuilding. Part I examines the multifaceted forces of globalization, structural violence and gender based violence (GBV) that set up the gendered dynamics of war. Part II draws from this framework to understand the fluid contexts of gender and violence in war, including sexual violence. It looks at how people try to remain safe from armed conflict and marauding bands of rebels or soldiers, and the difficulties of sorting victim from perpetrator. Part III examines theories of social justice in the aftermath of war, and policies that can lead to improved security, safety, health, rehabilitation and reconstruction. Course requirements include exams and a research paper on the theory and policy implications of gender in war and its aftermath.

**IL 0152 International Human Rights****3 Credits**

**Attributes:** HACA Humanitarian Action Minor Context Course This course is devoted to an examination of basic human rights philosophy, principles, instruments and institutions. It introduces students to the origins and development of international human rights; the need to apply and enforce legal obligations and establish accountability for human rights violators; and the procedures enforced by the international community for human rights violation. Students will engage in focused discussions and debates on contemporary issues of human rights, such as Environmental Rights, Women's Rights, Rights Against Trafficking, and Economic Rights. The final part of the course includes a special focus on U.S Foreign Policies on Human Rights, concluding with Guantanamo. As part of the research requirements of the course, students will focus on human rights for which they want to be advocates and/or in which they want to be engaged.

**IL 0154 Contemporary Issues Affecting the Global Business Environment****3 Credits**

**Attributes:** INEL International Studies / International Business Elective

**Prerequisites:** EC 0011, EC 0012; or IL 0053.

This course introduces students to contemporary issues facing businesses that operate in the global market. Students will learn about the changing global business environment on a macro-level. The course focuses on the evolving rhetoric surrounding international trade and its impact on business activity, the flow of investment to developing countries and emerging markets, and the status of global and regional integration and/or potential disintegration. Through the study of these current real-world topics in international business, students will learn about challenges and opportunities of doing business in an interconnected global environment while working with international organizations, local governments, and global competitors.

**IL 0197 United Nations Security Council Crisis Simulation****3 Credits**

**Attributes:** HACA Humanitarian Action Minor Context Course, WDIV World Diversity

This course gives students a hands-on learning experience in world diversity by simulating a United Nations Security Council crisis in international peace and security. The objective is to introduce students to the challenges of global governance in light of the different perspectives they encounter representing different constituencies of the UN Security Council who come from diverse cultural, historical, and geo-political regions of the world. A key goal of the course is to bring to light whether and how power disparities limit the global South's effective representation, and the stakes in reform of the Security Council. While the topic of the simulation will vary, the focus is on a crisis in a non-Western region of the world.

**IL 0295 Seminar in International Studies****3 Credits**

The course examines special topics in international studies. The specific topic for a given semester is announced at the time of registration. The course may be repeated with permission of the program director.

**IL 0298 Internship****0-3 Credits**

**Prerequisite:** Junior or senior standing.

Students accept placements with local organizations, government agencies, or non-profit organizations in positions with an international component. Interns learn to apply knowledge acquired in their course of study to real-world situations. Completion of the internship requires regular meetings with the supervising faculty member, submission of journal entries, and one paper. Note: Students complete the internship in addition to the basic requirements for the major or minor. Arrangements for summer and international internships are also available. Students must have a GPA of 2.8 or higher.

**IL 0299 Independent Study****1-3 Credits**

Students pursue an independent research project on international issues under the supervision of a faculty member. Open to juniors and seniors with the director's permission.

**IL 0300 Senior Capstone Seminar****3 Credits**

**Prerequisites:** EC 0011, EC 0012, IL 0050, IL 0051, IL 0052.

This course requires students to theorize and analyze emerging trends in the political, socio-cultural, economic, and business dimensions of global affairs, and develop the implications in a particular context or setting. Students undertake a major research project as a central activity in this course drawing on the expertise and research methodologies they have developed in International Studies. This course is taken during the senior year, after students have completed all core courses in international studies.

**Irish Studies (IRI)****IRI 0110 Introduction to the Irish Language I****3 Credits**

This course, the first in a two-course sequence, offers students an introductory level study of the Irish Gaelic language. Irish is the oldest surviving Celtic language, dating to the Roman Empire, and it opens a window to the Gaelic Order prior to 1690, a span of over 15 centuries.

This course sequence teaches students the basics of grammar, syntax, speaking and writing in Irish, as well as some of the historical and cultural contexts within which the Irish language developed and to which it is deeply tied. The class may be attended online-only as well. This course does not count for core credit in Modern and Classical Languages.

**IRI 0111 Introduction to the Irish Language II****Prerequisite:** IRI 0110.

This course, a continuation of IRI 0110, offers students an introductory level study of the Irish Gaelic language. Irish is the oldest surviving Celtic language, dating to the Roman Empire, and it opens a window to the Gaelic Order prior to 1690, a span of over 15 centuries. This course sequence teaches students the basics of grammar, syntax, speaking and writing in Irish, as well as some of the historical and cultural contexts within which the Irish language developed and to which it is deeply tied. The class may be attended online-only as well. This course does not count for core credit in Modern and Classical Languages.

**Italian (IT)****IT 0110 Elementary Italian I****3 Credits**

Designed for students with no prior experience with Italian or whose placement scores are in the range for this course level. This course, the first in a two-semester sequence, teaches the essentials of pronunciation, structure, and usage, allowing students to acquire the skills of listening, speaking, reading, and writing. The culture of Italy is explored through a variety of media. Students attend three classes per week and do mandatory online work determined by the instructor.

**IT 0111 Elementary Italian II****3 Credits****Prerequisite:** IT 0110.

This course, a continuation of IT 0110, teaches the essentials of pronunciation, structure, and usage, allowing students to acquire the skills of listening, speaking, reading, and writing. The culture of Italy is explored through a variety of media. Students attend three classes per week and do mandatory online work determined by the instructor.

**IT 0210 Intermediate Italian I****3 Credits****Prerequisite:** IT 0111.

This course, the first in a two-semester sequence, prepares students to continue the study of language on a more advanced level, and includes review of essential points of grammar, vocabulary building, and regular practice in speaking and writing. Italian culture is explored through a wide variety of materials including literary texts, press articles, and films. Students attend three classes per week and do mandatory online work determined by the instructor.

**IT 0211 Intermediate Italian II****3 Credits****Attributes:** ISIT Italian Studies: Italian**Prerequisite:** IT 0210.

This course, a continuation of IT 0210, prepares students to continue the study of language on a more advanced level, and includes review of essential points of grammar, vocabulary building, and regular practice in speaking and writing. Italian culture is explored through a wide variety of materials including literary texts, press articles, and films. Students attend three classes per week and do mandatory online work determined by the instructor.

**IT 0220 Topics in Language and Culture****3 Credits****Attributes:** ISIF Italian Studies: Italy-Focused**Prerequisite:** IT 0211.

This course improves proficiency in written and oral expression by focusing on particular topics in Italian language and culture. Students develop advanced writing and speaking skills while concentrating on grammar, style, and appropriateness. Weekly compositions, based primarily on the genres studied (short story, theater, memoir, essay) allow students to identify and correct grammatical mistakes. Students present speeches in class and conduct situational dramas such as job interviews, television reporting, courtroom trials, and debates in Italian. Films and various cultural artifacts (comic strips, proverbs, songs) familiarize students with idiomatic Italian.

**IT 0222 Made in Italy****3 Credits****Attributes:** ISIF Italian Studies: Italy-Focused, ISIT Italian Studies: Italian**Prerequisite:** IT 0211.

Made in Italy, a term that indicates the uniqueness of Italy in abbigliamento (clothing), agroalimentare (food), arredamento (furniture) and automobili (automobiles), dates to the 1980s. This course seeks to further our understanding of Italian culture by investigating the reasons for the popularity and preeminence of products made in Italy. Designers have ensured Italy's prominence in the world of fashion. Pasta, prosciutto, and olive oil are synonymous with Italy, the birthplace of the Slow Food movement. Innovative design, both interior and exterior, is another hallmark of Italian excellence. Italy has produced both high performing, luxury cars and more economical modes of transportation. Conducted in Italian.

**IT 0233 Creative Writing****3 Credits****Attributes:** ISIF Italian Studies: Italy-Focused, ISIT Italian Studies: Italian**Prerequisite:** IT 0211.

This course will explore the craft of fiction, touching on both its theory and practice. Students will begin by examining some masters of prose in order to discuss key elements of fiction writing (plot, character, point of view, and style). They will consider the panorama of modern and contemporary Italian fiction, from the novella to the historical novel, coming-of-age fiction to the postmodern immigrant narrative. Students will develop individual creative projects, which will be shared with their workshop classmates and revised in cooperation with the instructor.

**IT 0240 Language of Food in Italian Culture****3 Credits****Attributes:** ISIF Italian Studies: Italy-Focused, ISIT Italian Studies: Italian**Prerequisite:** IT 0211.

"Dimmi ciò che mangi e ti dirò chi sei... Tell me what you eat, and I will tell you what you are." Perhaps more than any other modern nation, Italy is defined by and celebrated for its food. Exports such as vino, pizza, and gelato, so quintessentially Italian, are now readily available across the globe. But what does food mean to Italians, and how does it reflect, magnify, and shape their collective identity? In this course, students will explore references to food and gastronomy in Italian literature, television, cinema, and art. We will investigate how Italians past and present have used food to talk about mechanisms of social belonging, disparity, and alienation. Beginning with today's celebrity chefs and moving back to Dante and the origins of Italian literature, we will learn about the historical forces that influenced Italy's evolving culinary traditions while honing our Italian language skills.

**IT 0253 Contemporary Italian Culture****3 Credits****Attributes:** ISIF Italian Studies: Italy-Focused, ISIT Italian Studies: Italian**Prerequisite:** IT 0211.

This course examines aspects of contemporary Italian culture in the arts, film, music, media, and literature. Students analyze the debates that inform the political, social, and cultural dimensions of Italian society today. Readings include magazine and newspaper articles, print advertisements, novels, short stories, and comic books. Students view television news reports, soap operas, commercials, and movies, and listen to various types of contemporary Italian music. The course is conducted in Italian.

**IT 0255 The Novella****3 Credits****Attributes:** ISIF Italian Studies: Italy-Focused**Prerequisite:** IT 0211.

This course analyzes the most successful genre in Italian literature, the novella (short story), as it evolved from the medieval era through the Renaissance to present day. Students read selections from Boccaccio, Basile, Bandello, Verga, Pirandello, Deledda, Morante, Moravia, Calvino, and others. The course is conducted in Italian.

**IT 0257 Theatre in Italy: Comedy from Machiavelli to Fo****3 Credits****Attributes:** ISIF Italian Studies: Italy-Focused**Prerequisite:** IT 0211.

From the erudite satires of the humanists to the political farces of contemporary playwrights, Italian comedy has always done more than just entertain. In this course we will study dramatic works by some of Italy's most prominent authors (Machiavelli, Aretino, Goldoni, Pirandello, et al.) and explore the development of comic theater in Italy from the Renaissance to the present. We will weigh the social function of humor in Italian theater, along with issues relating to gender, power, and performance. We will focus on the literary and historical dimensions of these texts, but also use these lively comedies to hone our reading, writing, and oral skills in Italian. To that end, we will watch clips of the plays, regularly perform scenes together in class, and even experiment with improvised "commedia dell'arte" scenarios.

**IT 0262 Rome in Cultural Imagination****3 Credits****Attributes:** CAOT Catholic Studies: Non-Religious Studies, E\_BF English Literature Before 1800, ISIF Italian Studies: Italy-Focused, ISIT Italian Studies: Italian

The city of Rome has been a source of wonder and amazement throughout recorded history. This course examines the foundation myths of the Eternal City in contrast to the historical accounts, discusses early accounts of the life of the city, evaluates the reasons for its decline and fall, considers the riches of Renaissance and Baroque periods, analyzes poetry by the Roman people, and examines Rome's centrality for the world of art. This course, which is conducted in English, also focuses on the political importance of the city from its inception through the Risorgimento (Italian Unification), to Fascism and World War II, to present day.

**IT 0271 Italian Cinema****3 Credits****Attributes:** ISIF Italian Studies: Italy-Focused, ISIT Italian Studies: Italian, VPCH Visual and Performing Arts Core: History Course

This survey of Italian films as textual, cultural, and historical artifacts analyzes movements such as neorealism, commedia all'italiana, the spaghetti western, and new Italian cinema through the works of selected directors. The course follows a chronology from the silent period to present day, with special emphasis on the "golden ages" of Italian cinema, neo-realism of the postwar period, the 1960s' comedy of manners, and the new Italian cinema of the '80s and '90s. Students analyze the works of Rossellini, De Sica, Fellini, Visconti, Germi, Antonioni, Wertmüller, Leone, Pasolini, Moretti, Benigni, and others.

**IT 0289 Dante****3 Credits****Attributes:** CAOT Catholic Studies: Non-Religious Studies, E\_AF English Literature After 1800, ISIF Italian Studies: Italy-Focused, ISIT Italian Studies: Italian

This course examines the works of Dante Alighieri, including the *Vita nuova*, in addition to the "Inferno," "Purgatorio," and "Paradiso" from the Divine Comedy. Students are introduced to the political, linguistic, theological, and poetic ideas that make Dante's works not only significant in the medieval context, but also continue to challenge and inform modern debates. This course, which is conducted in English, counts towards the core requirement in literature.

**IT 0290 Italian American Cinema****3 Credits****Attributes:** ISIF Italian Studies: Italy-Focused, ISIT Italian Studies: Italian, ITEN Italian Course Taught in English

This course investigates salient aspects of Italian American cinema, including the representation of Italian Americans, works directed by Italian American directors, and roles played by Italian American actors. It also examines the difference in roles and representation for men and women in this subgroup of American society, with particular consideration given to the ethnic roots of these differences. Throughout the semester we will examine the ways in which film displays Italian ethnicity in the United States. The course also analyzes the profound influence of Italian cinema on the filmmaking of Italian American screenwriters and directors. This class is taught in English.

**IT 0330 Redefining the Cosmos: Voyages to the New World in the Italian Renaissance****3 Credits****Attributes:** ISIF Italian Studies: Italy-Focused**Prerequisite:** IT 0211.

The Italian Renaissance has traditionally been understood as the very laboratory of Modernity. In a time where new and revolutionary ideas about art, politics and science took shape, Europe faced an extraordinary challenge: how to integrate into "the Renaissance experiment" the new natural and human experience that opened up with the discovery of the New World. Italy produced an extraordinarily heterogeneous body of work that stemmed from these voyages: that is, a "literature of discovery." This course will explore this literature, which includes epic poems, popular cantari, travelogues, historical and geographical treatises, as well as epistolary collections.

**IT 0377 Internship****3 Credits****Attributes:** ISIF Italian Studies: Italy-Focused

The internship program gives students first-hand experience in the fields of translation, interpretation, cataloging, public relations, advertising and teaching in the language of their specialization. Department members, who agree to guide the endeavor, supervise student work. When required by a faculty supervisor, an evaluation of student interns may be required from the institution where students work. The student's work should demand no less than one full day per week, or its equivalent.

**IT 0378 Internship****3 Credits**

The internship program gives students first-hand experience in the fields of translation, interpretation, cataloging, public relations, advertising and teaching in the language of their specialization. Department members, who agree to guide the endeavor, supervise student work. When required by a faculty supervisor, an evaluation of student interns may be required from the institution where students work. The student's work should demand no less than one full day per week, or its equivalent.

**IT 0381 Coordinating Seminar****3 Credits**

**Attributes:** ASML American Studies: Language, ISIF Italian Studies: Italy-Focused, ISIT Italian Studies: Italian  
Students undertake readings and studies in a specialized area of Italian, under the direction of a staff member. Designed to fill the special needs of specific students, this course is offered at the discretion of the department chair. Hours by arrangement.

**IT 0382 Coordinating Seminar****3 Credits**

**Attributes:** ISIF Italian Studies: Italy-Focused, ISIT Italian Studies: Italian  
Students undertake readings and studies in a specialized area of Italian, under the direction of a staff member. Designed to fill the special needs of specific students, this course is offered at the discretion of the department chair. Hours by arrangement.

**IT 0393 Italian-American Experience****3 Credits**

**Attributes:** ASML American Studies: Language, ISIF Italian Studies: Italy-Focused, UDIV U.S. Diversity  
This course analyzes the concept of nationality and national identity in literature, film, and critical essays by and about Italian-Americans. The course also discusses the concept of ethnicity together with the phenomenon of emigration and the difference in roles for men and women in this subgroup of American society. The success of Italian-Americans in various sectors of society reveals the vitality and determination of this particular ethnic group in the face of prejudice and economic hardship. Students examine the contributions of Italians who left their native land for a new beginning and discuss the perception and reality of America as the "promised land" in the Italian-American community. The course is conducted in English.

**IT 0399 Capstone Seminar****3 Credits**

**Attributes:** ISIF Italian Studies: Italy-Focused

**Prerequisite:** Senior standing.

Majors in Italian participate in an interdisciplinary seminar in the spring of their senior year. The focus of this seminar varies according to the professor, but possible topics include European Film, The Grand Tour, Immigration in Europe, Capital Cities, Language Teaching and Technology, Europe and America. Students research their capstone papers in the target language and present the final work in English and Italian. The instructor may, in some cases, evaluate work in the target language in consultation with colleagues in the area of expertise in the department. Seminar is conducted in English.

## Japanese (JA)

**JA 0110 Elementary Japanese I****3 Credits**

Designed for students with no prior experience with Japanese or whose placement scores are in the range for this course level. This course, the first in a two-semester sequence, teaches the essentials of pronunciation, structure, and usage, allowing students to acquire the skills of listening, speaking, reading, and writing. Language cultures are explored through a variety of media. Students attend three classes per week and do mandatory online work determined by the instructor.

**JA 0111 Elementary Japanese II****3 Credits**

**Prerequisite:** JA 0110.

This course, a continuation of JA 0110, teaches the essentials of pronunciation, structure, and usage, allowing students to acquire the skills of listening, speaking, reading, and writing. Language cultures are explored through a variety of media. Students attend three classes per week and do mandatory online work determined by the instructor.

**JA 0210 Intermediate Japanese I****3 Credits**

**Prerequisite:** JA 0111.

This course, the first in a two-semester sequence, prepares students to continue the study of language on a more advanced level, and includes review of essential points of grammar, vocabulary building, and regular practice in speaking and writing. The language cultures are explored through a wide variety of materials (literary texts, press articles, films, etc.). Students attend three classes per week and do mandatory online work determined by the instructor.

**JA 0211 Intermediate Japanese II****3 Credits**

**Prerequisite:** JA 0210.

This course, a continuation of JA 0210, prepares students to continue the study of language on a more advanced level, and includes review of essential points of grammar, vocabulary building, and regular practice in speaking and writing. The language cultures are explored through a wide variety of materials (literary texts, press articles, films, etc.). Students attend three classes per week and do mandatory online work determined by the instructor.

## Latin (LA)

**LA 0111 Basic Latin****4 Credits**

The course presents an intensive study of Latin grammar. Students who complete this course continue in LA 0210 and LA 0211.

**LA 0210 Readings in Latin Prose and Poetry I****3 Credits**

For students with a high school background or the equivalent in Latin, this course fills out that background through extensive readings in the principal authors and genres not read in high school.

**LA 0211 Readings in Latin Prose and Poetry II****3 Credits**

**Prerequisite:** LA 0210.

A continuation of LA 0210, this course fills out that background through extensive readings in the principal authors and genres not read in high school.

**LA 0321 Latin Poetry I****3 Credits**

**Prerequisite:** LA 0211.

Involves extensive readings of selected authors of Latin poetry.

**LA 0322 Latin Poetry II****3 Credits**

**Prerequisite:** LA 0211.

Involves extensive readings of selected authors of Latin poetry.

**LA 0323 Latin Prose I****3 Credits**

**Prerequisite:** LA 0211.

Students undertake extensive readings of selected Latin prose authors in this course.

**LA 0324 Latin Prose II****3 Credits**

**Prerequisite:** LA 0323.

Students undertake extensive readings of selected Latin prose authors in this continuation of LA 0323.

# Latin American and Caribbean Studies (LAC)

## LAC 0300 Justice and the Developing World

**4 Credits**

**Attributes:** EDCG Educational Studies Cognate, HASM Humanitarian Action Minor Skills/Method Course, LCEL LACS Minor: Elective, PJST Peace and Justice Studies, WDIV World Diversity

This interdisciplinary course combines the insights of history, politics, philosophy, anthropology, sociology, business, and economics to examine problems of poverty and justice in the developing world - including health, education, and environmental sustainability - with particular focus either on Central or South America, or the Caribbean. Significant to the course is a one-week immersion in one country, which is not required but strongly encouraged. Students plan and carry out a research project asking the critical questions and using the research methodologies of their academic major or minor. The immersion trip provides students with an intensive field research opportunity, the findings from which they incorporate into their papers.

## LAC 0301 Latin America and the United States

**3 Credits**

**Attributes:** H\_NW Non-Western History, H\_RE History: Research Paper, LCEL LACS Minor: Elective, WDIV World Diversity

This interdisciplinary course is not a course in diplomatic relations. Rather it considers the ways in which Latin Americans have perceived, analyzed, depicted, reacted to, and dealt with the United States. The course considers essayists, poets, filmmakers, social scientists, statesmen, journalists, revolutionaries, artists, "vendepatrias", and diplomats. This course, which fulfills the requirement for the capstone seminar in Latin American and Caribbean studies and counts as a history course, includes research papers and oral presentations.

## LAC 0373 Internship

**3 Credits**

**Attributes:** LCEL LACS Minor: Elective

Short-term internships in the field of Latin American and Caribbean Studies combine academic work with service that answers a community identified need, and critical reflection. Such internships are offered in a Latin American or Caribbean country generally during the summer for a four to six-week period. Prior approval from the director(s) of the LACS program is required.

## LAC 0399 Independent Study

**1-4 Credits**

**Attributes:** LCEL LACS Minor: Elective

**Prerequisites:** At least one course in LACS; Junior or senior standing. A student may conduct a one-semester independent study on a defined research topic or field of study under the supervision of a Professor in the LACS Program. Requires prior approvals by the Professor with whom the student will work as well as the Director of the LACS program.

# Management (MG)

## MG 0101 Introduction to Management

**3 Credits**

**Prerequisite:** Sophomore standing.

This course integrates, through theory and its application, the various topics, concepts, and modalities that make up the Management discipline. Its purpose is twofold: 1) to provide all business students with a strong grounding in how individuals and organizations function to support the strategic goals of business, and 2) to provide a foundation for further study by management majors and minors. The course introduces students to team/group work; the relationship of business to local, national, and global communities; the ethical implications of business decisions and models; organizational behavior; human resource management; leadership and organizational culture.

## MG 0235 Managing Human Resources

**3 Credits**

**Prerequisite:** Junior standing.

This course introduces students to how effective management of people can contribute to firm performance and competitive advantage. The course explores human resource management activities: human resource planning, recruiting, selection, training, performance appraisal, compensation, and labor relations. Through extensive use of cases, simulations, and exercises, students actively learn to implement various human resource management strategies to better serve organizational and employee interests.

## MG 0240 Leading and Managing People

**3 Credits**

**Prerequisite:** Junior standing.

This course prepares students for the task of leading and managing people. The purpose of the course is to address advanced organizational behavior topics as well as to illuminate the research and practice associated with effective leadership. The first segment of the course reviews the leadership literature, including trait theory, aspects of leadership style, leader emergence, contingency theories, and charismatic/transformational leadership practices. The second segment involves skill practice in managing people in the areas of communication, conflict resolution, empowerment, delegation, influence, teamwork, problem solving, and diversity issues. The third and final segment explores strategic leadership from the CEO perspective, and addresses how leaders create change and transform organizations.

## MG 0300 Business Strategies in the Global Environment

**3 Credits**

**Prerequisites:** Matriculation in a business program, senior standing, completion of business core.

This capstone course, required for senior level students in the School of Business, integrates the business core through the concept of strategic management. It offers an opportunity for students to put together all they have learned in their discipline and to see the "big picture" of how business organizations function. The primary goal is to prepare students to think like top managers and to understand that strategic decision-making encompasses all parts of the organization, internal and external, bringing together all disciplines of management. The course includes lectures, readings, cases, and a capstone group project.

## MG 0302 Topics in Human Resources

**3 Credits**

**Prerequisite:** Junior standing.

This course examines topics in human resource management as they relate to contemporary organizations. The course gives students an in-depth understanding of current issues or topics in the area of human resources, giving special attention to the strategic aspect of human resource management: how human resources can create value for the organization. Topics may include strategic human resource management; human resource systems; human resource planning; quality of work life; flexible work; diversity; affirmative action; legal aspects of employment; and work-family issues.

<b>MG 0303 Topics in Management (Shell)</b>	<b>3 Credits</b>	<b>MG 0330 Career Planning</b>	<b>3 Credits</b>
<b>Attributes:</b> HSTE Health Studies: Traditions, Delivery, and Ethics, MGEL Management: General Elective		<b>Prerequisites:</b> MG 0235 or MG 0240; Junior standing.	
<b>Prerequisite:</b> Junior standing.		This course prepares students for the job search while exploring theoretical issues in career development over the life span. Theories of career development covered include: life stage and career stage models, aspects of politics that shape careers, issues of derailment, technical career paths, gender issues in careers, mentoring, and new career models, such as the boundaryless career, the protean career, and the kaleidoscope career. Students undertake a resume revision process, develop a sample cover letter, participate in workshops on Internet job searching techniques, and practice mock interviews. An in-class session with members of the Career Planning Center is included. Students may also receive credit for a job shadowing assignment, attendance at Career Fairs, and other career-related activities. Open to management majors and minors only.	
<b>MG 0303C Topics in Management: Sports Media Platforms and Strategies</b>	<b>3 Credits</b>	<b>MG 0335 Entrepreneurship: Ideation and Validation</b>	<b>3 Credits</b>
<b>Attributes:</b> MGEL Management: General Elective		<b>Prerequisite:</b> Junior standing.	
This course is a thorough examination of the most prominent sports media consumption platforms, covering how each has evolved over the last 100 years and how they all co-exist today. Guest speakers from leading sports media organizations and visits to network centers offer real-world insights and detailed understandings of the sports media landscape. Analyze how various businesses employ these platforms to engage fans and positively affect their bottom line.		This course is a practical introduction to the problems, practices, and opportunities that exist for early stage startups which are examined from conception of the opportunity through customer discovery and customer validation utilizing an experiential learning approach. Participants will explore business model possibilities for a venture of their own devising. Emphasis will be placed on clear statement of hypotheses, effective testing of the problem the venture aims to address, and appropriate testing of the product/service developed to address the problem in order to develop suitable product-market fit. Student teams will assess and iterate upon business model elements including value propositions, customer segments and customer relationships, in addition to channels that may be used to interact with or deliver products/services to customers. Although the course will not cover the launch of a scalable business, student teams will undertake real-world investigation and testing to discover customer wants and needs and to validate their conception of the problems and product/service solutions that their ventures would use to address those problems. Students will also gain experience with crafting business pitches and delivering those pitches via regular in-class presentations as they hone their ventures' business models.	
<b>MG 0303D Topics in Management: Healthcare Management</b>	<b>3 Credits</b>	<b>MG 0336 Social Entrepreneurship</b>	<b>3 Credits</b>
<b>Attributes:</b> HSTE Health Studies: Traditions, Delivery, and Ethics, MGEL Management: General Elective, MGHR Management: HR Elective		<b>Attributes:</b> MGEL Management: General Elective, MGEM Management: Entrepreneurship Elective	
This course will center on how the current disruption from volume to value is driving the business of healthcare organizations to measure quality and cost variation for every patient they serve. This management course will examine how this uncertain path to value based care delivery requires both new partnerships and a new integrated language to guide clinical, financial, and operational leaders on how to provide and measure better quality of care at a lower cost.		<b>Prerequisite:</b> Junior standing.	
<b>MG 0303E Special Topics: Entrepreneurship Consulting</b>	<b>3 Credits</b>	This course examines the tremendous opportunities that exist for creating value in the social sector. Using entrepreneurial frameworks and business metrics, social entrepreneurs are effecting change in domains that markets have failed to address. The objective of this course is to sensitize students to ways that firms can influence societal outcomes while continuing to be revenue generating, self-sustaining enterprises. The primary learning strategy will be through case presentations and discussions of current social entrepreneurs and their organizations. During the term, students will develop a business plan to support a viable social enterprise.	
<b>Attributes:</b> MGEL Management: General Elective, MGEM Management: Entrepreneurship Elective			
<b>Prerequisite:</b> Junior standing.			
The Business Model Canvas/Strategyzer methodology will be utilized to build business plans for local entrepreneurial startups.			
<b>MG 0303F Special Topics: Building High Performance Teams</b>	<b>3 Credits</b>		
<b>Attributes:</b> MGEL Management: General Elective			
<b>Prerequisite:</b> Junior standing.			
The theory and experiential frameworks for effective team building and leadership in the business environment.			
<b>MG 0320 Diversity in the Workplace</b>	<b>3 Credits</b>		
<b>Attributes:</b> UDIV U.S. Diversity			
<b>Prerequisite:</b> Junior standing.			
This course allows questions to be framed, and answers sought, with regard to the challenge of diversity in the work environment. The course uses readings, exercises, and real-world projects to formulate the following: a definition of diversity; an awareness of its impact on businesses and their managers; the identification of the challenges that diversity presents and the opportunities it allows for even more productive workplace interactions; and the necessary skills, attitudes, and patterns of critical thinking needed for effective leadership in this important area. The course presents issues in the specific real-life context of ethnic, racial, gender, and class groups.			

<b>MG 0337 Entrepreneurship: Product Development and Commercialization</b>	<b>3 Credits</b>	<b>MG 0355 High Performance Learning Teams</b>	<b>3 Credits</b>
<b>Prerequisite:</b> Junior standing.		<b>Prerequisite:</b> Junior standing.	
Building upon the Business Model Canvas of Osterwalder and Pigneur and the Lean Launchpad framework of Blank, Engel, and Dorf, this course provides students the skill sets necessary to progress from basic entrepreneurial ideation and validation to formalized product development with the concomitant required business models. Mechanisms are developed for identifying markets, assessing competition in those markets, and the associated market entry strategies. Included is the identification of key resources: financial, human, and intellectual capital; as well as the associated acquisition strategies. Key partnerships are identified in the categories of strategic alliances, "coopetition," joint new business development efforts, and key supplier relationships. Associated with this is the investigation of the choice between physical and web/mobile channels in getting products from company to customers, and the associated strategies of customer retention and growth. Revenue and pricing models, both in the business-to-customer and business-to-business contexts are discussed in detail.		This course is informed by the assumption that solving complicated business problems is an innately collaborative, interdisciplinary endeavor where expert knowing invariably demands doing, with others. Accordingly, the course provides students with a laboratory experience, putting select core management themes such as leadership, decision-making, teamwork, and hands-on problem-solving literally to work unraveling a succession of increasingly complex and interconnected organizational and experiential problems. As the course unfolds, students will learn to self-monitor and self-correct; gain direct experience in peer-to-peer project planning and management, experience real-time thinking through analysis and design; work collectively; and, not least, learn from reversals.	
<b>MG 0338 Managing a Family Business</b>	<b>3 Credits</b>	<b>MG 0360 Negotiations and Dispute Resolution</b>	<b>3 Credits</b>
<b>Prerequisite:</b> Junior standing.		<b>Attributes:</b> EVAP Environmental Studies: Applied Professional Skills	
This course provides a foundation for understanding family businesses, which represent over 80% of the world's free economies. The dynamics of first generation start-ups or multi-generational family businesses are often unique, yet tenuous to manage. Regardless of whether you are a member of the managing family or assuming a position within the firm, comprehension of the idiosyncrasies of successfully managing their complex operations is imperative. Through class discussions, case studies, articles, role plays and your research project based on auditing a locally-based family enterprise, this course will enable you to analyze and consider participating in a family business. Guest lectures from local family businesses will provide real-world application of the theories and concepts discussed in class.		<b>Prerequisite:</b> Junior standing.	
<b>MG 0350 International Law</b>	<b>3 Credits</b>	<b>MG 0365 Ethics and Technology in Business</b>	<b>3 Credits</b>
<b>Attributes:</b> HASM Humanitarian Action Minor Skills/Method Course, WDIV World Diversity		<b>Prerequisite:</b> Junior standing.	
<b>Prerequisite:</b> Junior standing.		This course builds skills in negotiating and managing disputes and explores various theories concerning negotiation styles, strategy and tactics, alternative dispute resolution, and the major legal and ethical issues in the field. The course strengthens negotiation skills, introduces the many formal and informal processes available for dispute resolution, and develops managers' ability to resolve and prevent disputes. The heart of the course is a series of experiential exercises that create opportunities to practice and develop the principles learned in the course.	
<b>MG 0350 International Law</b>	<b>3 Credits</b>	<b>MG 0365 Ethics and Technology in Business</b>	<b>3 Credits</b>
<b>Attributes:</b> HASM Humanitarian Action Minor Skills/Method Course, WDIV World Diversity		<b>Prerequisite:</b> Junior standing.	
<b>Prerequisite:</b> Junior standing.		This course examines the ways computer technologies may pose new kinds of ethical issues that call for fresh approaches to thinking ethically about business. The purpose of the course is to help students prepare to deal effectively with ethical issues of a technology they are likely to face in their careers.	
<b>MG 0350 International Law</b>	<b>3 Credits</b>	<b>MG 0370 Managing Non-Profit Organizations</b>	<b>3 Credits</b>
<b>Attributes:</b> HASM Humanitarian Action Minor Skills/Method Course, MGHR Management: HR Elective		<b>Prerequisite:</b> Junior standing.	
<b>Prerequisite:</b> Junior standing.		This course provides students with an understanding of the nonprofit sector and exposure to fundamentals in managing nonprofit organizations. It explores a broad range of topics including: the role of nonprofits in society, executive leadership and governance relationships in nonprofit organizations, the legal framework of nonprofits, human resource management of staff and volunteers, marketing and public relations, fundraising, budgeting and financial management, and strategic planning in the nonprofit sector. Special emphasis will be placed on leadership and the unique challenges that nonprofit leaders face in local, national, and global environments.	

<b>MG 0375 Sports Management</b>	<b>3 Credits</b>	<b>MG 0391 Internship</b>	<b>3 Credits</b>
<b>Prerequisite:</b> Junior standing.		<b>Prerequisite:</b> Junior standing.	
This course examines effective and efficient management within the culture of sports organizations. It distinguishes the management requirements in sports organizations. Current issues in the various sports industries are analyzed and the actions of the industries' management are reviewed and critiqued. Different types of organizational structures are studied and their method for motivating, managing, and evaluating the performance of employees, individually and in teams, is discussed. This course also identifies effective management styles and places emphasis on the importance of sound communication skills and goal setting. The fundamental purpose of this class is to provide students with an understanding of how to apply the principles of business and/or the elements of organization to sport. Over the semester, students will have the opportunity to explore basic theories of management, human resource management, politics, finance, marketing, resource acquisition (fundraising and corporate support), sports law, broadcast properties, media and publicity, future trends in facilities as well as philosophical, sociological, and culture considerations of sport.		Students may take two semesters of internship, approved by the department. Students must have a GPA of 2.5 or higher. Enrollment by permission only.	
<b>MG 0380 Performance, Compensation, and Reward</b>	<b>3 Credits</b>	<b>MG 0392 Internship</b>	<b>3 Credits</b>
<b>Prerequisite:</b> Junior standing.		<b>Prerequisite:</b> Junior standing.	
This course covers theories and practices for effective compensation management. Topics include strategic perspectives of compensation systems, determining pay structure, job analysis, and job evaluation, design and administration, external pay competitiveness, designing pay levels, employee contributions and individual pay, subjective performance evaluation and merit pay, alternative reward systems, employee benefits, government's role and compliance, pay discrimination, budgets and pay administration, and union role in wages and salary administration.		Students may take two semesters of internship, approved by the department. Students must have a GPA of 2.5 or higher. Enrollment by permission only.	
<b>MG 0385 Managing People for Global Business</b>	<b>3 Credits</b>	<b>MG 0393 Internship</b>	<b>1 Credit</b>
<b>Attributes:</b> WDIV World Diversity		<b>Prerequisite:</b> Junior standing.	
<b>Prerequisite:</b> Senior standing.		Students may take two semesters of internship, approved by the department. Students must have a GPA of 2.5 or higher. Enrollment by permission only.	
This course recognizes the complexities of managing human resources in the global business arena. Modern-day business is characterized by the relentless pace of globalization, through formation of international collaborations, mergers, joint ventures, and the opening up of new markets such as China, India, and Eastern Europe. There has been a dramatic increase in virtual work teams across several countries, globally outsourced work, and cultural diversity in the workplace as more people move across national borders to work. As a result, human resource management practices like recruitment, training, compensation, performance management, and employee relations are more complex. Additionally legal and regulatory requirements of foreign countries, cultural differences, expatriate management, and workforce mobility become important considerations. This course analyzes these complexities along with in-depth study of the people-related issues in different countries in Asia, Africa, Latin America, and Eastern Europe.		<b>MG 0394 Internship</b>	<b>1 Credit</b>
<b>MG 0390 Cross-Cultural Management</b>	<b>3 Credits</b>	<b>Prerequisite:</b> Junior standing.	
<b>Attributes:</b> WDIV World Diversity		Students may take two semesters of internship, approved by the department. Students must have a GPA of 2.5 or higher. Enrollment by permission only.	
<b>Prerequisite:</b> Senior standing.		<b>MG 0397 Seminar in Management</b>	<b>3 or 6 Credits</b>
Globalization, the internationalization of markets and corporations, has changed the way modern corporations do business. This course examines major themes and issues in the area of cross-cultural management. It focuses on three perspectives: the values, attitudes, and behaviors that are common to a cluster of countries, specific to one country, or specific to a major cultural subgroup or subgroups within one country. It explores what happens when cultures clash, and the need to understand different approaches to doing business in a diverse world.		<b>Attributes:</b> MGEL Management: General Elective	
		This special program involving independent study and research under faculty guidance is also intended for students accepted in an approved internship. Open only to seniors majoring in management and approved by the department chair. Students must have a GPA of 2.5 or higher.	
		<b>MG 0398 Seminar in Management</b>	<b>3 or 6 Credits</b>
		This special program involving independent study and research under faculty guidance is also intended for students accepted in an approved internship. Open only to seniors majoring in management and approved by the department chair. Students must have a GPA of 2.5 or higher.	
		<b>MG 0400 Organizational Behavior</b>	<b>3 Credits</b>
		This course examines micro-level organizational behavior theories as applied to organizational settings. Topics include motivation, leadership, job design, interpersonal relations, group dynamics, communication processes, organizational politics, career development, and strategies for change at the individual and group levels. The course uses an experiential format to provide students with a simulated practical understanding of these processes in their respective organizations.	
		<b>MG 0500 Leadership</b>	<b>3 Credits</b>
		<b>Prerequisite:</b> MG 0400.	
		This course focuses intensively on the art and science of leadership in organizations by examining the critical links between leader skills, strategy, and organizational change utilizing a human resources approach. The course strives to assist students from every concentration, including finance, marketing, information systems, accounting, and international business, to become leaders who can motivate and mobilize their people to focus on strategic goals. The material covered in this course will include traditional, contemporary, and strategic theories of leadership. Students will assess their leadership skills, and engage in a series of assignments designed to improve and establish confidence in their own abilities to lead.	

**MG 0503 Legal and Ethical Environment of Business****3 Credits**

This course helps students be more responsible and effective managers of the gray areas of business conduct that call for normative judgment and action. The course is designed to develop skills in logical reasoning, argument, and the incorporation of legal, social, and ethical considerations into decision-making. The course teaches the importance of legal and ethical business issues and enables students to make a difference in their organizations by engaging in reasoned consideration of the normative aspects of the firm. Using the case method, the course provides an overview of current topics, including the legal process, corporate governance, employee rights and responsibilities, intellectual property and technology, and the social responsibility of business to its various stakeholders.

**MG 0504 Managing People for Competitive Advantage****3 Credits**

This course focuses on effectively managing people in organizations by emphasizing the critical links between strategy, leadership, organizational change, and human resource management. Topics include the strategic importance of people, leading organizational change, corporate social responsibility, implementing successful mergers and acquisitions, and fundamentals of human resource practices. Discussions interweave management theory with real-world practice. Class sessions are a combination of case discussions, experiential exercises, and lectures.

**MG 0505 Human Resource Strategies: An Analytics Approach****3 Credits**

Human Resource Strategy is the linkage between human resource management (HRM) and firm strategy, contributing to competitive advantage of the firm. Human capital, which is knowledge, skills and abilities (KSA) of people, is one of the strategic assets of the firm. HRM entails recruitment and selection, training and development, total compensation and rewards, performance management, employee relations (such as diversity management, work life balance, legal and ethical compliance, safety issues) and other people related practices. In this course students will analyze how these practices can be aligned with the strategy of the firm and lead to greater firm performance. The students will take an analytics approach to generate for effectively managing employees so that business goals can be reached quickly and efficiently. the challenge of human resources analytics is to identify what data should be captured and how to use the data to model and predict capabilities so the organization gets an optimal return on investment (ROI) on its human capital.

**MG 0506 Organizational Culture****3 Credits**

This course starts from the premise that organizations are more than the sum of their parts and best understood as complex, evolving cultures. Indeed, organizations prosper or stumble on the meanings they produce. An organization's structure, control mechanisms, leadership, and identity are not, therefore, to be treated as brute facts of nature but as accomplishments of culture-bound human imaginations. Predicted on this 'constructivist' perspective, this course employs pressing questions about the efficacy of market-based culture (e.g., resource depletion) to improve students' skills in reconsidering corporate business purpose and social and environmental obligation.

**MG 0507 Negotiations and Dispute Resolution****3 Credits**

**Prerequisite:** MG 0500.

This course uses the theories of negotiation and alternative dispute resolution, along with extensive experiential exercises, to build individual negotiation skills and to help students manage disputes from a business perspective. The course emphasizes ways of managing both internal and external disputes.

**MG 0508 Strategic Management of Technology and Innovation: The Entrepreneurial Firm****3 Credits**

This course begins by presenting cutting-edge concepts and applications so that students understand the dynamics of innovation, the construction of a well-crafted innovation strategy, and the development of well-designed processes for implementing the innovation strategy. It then focuses on the building of an entrepreneurial organization as a critical core competency in the innovation process. Concurrent with this, it focuses on the development and support of the internal entrepreneur or Intrapreneur as part of the process of developing organizational core competencies that build competitive comparative advantages that, in turn, allow the firm to strategically and tactically compete in the global marketplace. Topics explored include technology brokering, lead users, disruptive technologies and the use of chaos and complexity theory in the strategic planning process.

**MG 0510 Management Communication, Influence, and Power****3 Credits**

**Prerequisite:** MG 0500.

This course examines the critical factors involved in communication, influence, and power in organizations. It emphasizes that a business strategy, decision, or idea is effective only if it is communicated in a way that persuades an audience. The course is intended for managers who seek to become more effective communicators, whether it is with one person, a group, or a large audience. Fundamentals of persuasion and influence tactics provide the context for considering such topics as critical listening skills, assessing one's emotional intelligence, analyzing communication networks, gender differences in communication, and strategies for communicating during conflict. The course addresses how to formulate communication objectives and strategy; assess levels of credibility; power, audience diversity, and corporate culture; analyze message structure; and choose appropriate communication media. This is an involved, hands-on class. In-class exercises, oral and written presentations, and case discussions provide vivid illustrations of the concepts.

**MG 0512 The Law of Commercial Transactions: Advanced Studies in the Uniform Commerical Code****3 Credits**

This course offers an in-depth analysis of laws and legal principles relevant to commercial transactions. Several articles of the Uniform Commercial Code will be studied, including: Articles 2 and 2A (Sales, Warranties and Leases of Goods); Articles 3 and 3A (Negotiable Instruments - i.e., checks, drafts, promissory notes); Articles 4 and 4A (Bank Collections and Deposits); Article 5 (Letters of Credit); Article 7 (Warehouse Receipts) and Article 9 (Secured Transactions). Federal bankruptcy law (with particular attention to Chapters 7 and 11) will also be considered.

**MG 0520 Diversity in the Workplace****3 Credits**

**Prerequisite:** MG 0500.

Students explore the value of diversity in organizations. They develop an increased understanding of the ways in which differences in the workplace can enhance both personal development and organizational effectiveness. To accomplish this, students explore why diversity has become a central strategic issue, their own diversity framework, the relationship between diversity and management effectiveness, and strategies for valuing diversity. The class addresses specific dimensions of diversity and the knowledge and skills students must develop to work effectively with people who are different.

**MG 0525 Performance Management****3 Credits**

This course builds on the foundational evaluations and reward concepts covered in "Managing People for Competitive Advantage." Students explore in some depth the employee performance management, compensation, and reward systems in organizations. Topics may include 360 degree feedback programs, ESOPs, profit sharing, gain sharing, and the strategic use of employee benefits. The course focuses on how employee performance management, compensation, and reward systems can lead to a competitive advantage for firms.

**MG 0530 Entrepreneurship****3 Credits**

This course covers entrepreneurship and small business management. The course focuses on the development of entrepreneurial start-up ventures from the point of view of the founding entrepreneur. The course explores characteristics and skills of successful entrepreneurs, the stages of growth of entrepreneurial businesses, the crises in start-up ventures, and issues confronting family and small business management. Students may create their own start-up business plan in conjunction with faculty as the primary course requirement.

**MG 0531 Social Entrepreneurship****3 Credits**

This course is about understanding how entrepreneurial skills can be used to craft innovative responses to pressing social needs. These skills are opportunity recognition, assembling resources, launching a venture, scaling it and finally ensuring its sustainability. There will be an emphasis, throughout the course, on how exemplar for-profit enterprises have been able to successfully contribute to widespread economic well-being and social development while enjoying significant profitability. Students will appreciate that the pursuit of profit and poverty alleviation need not be mutually exclusive domains and the institutional requirements that are needed to ensure this outcome.

**MG 0535 International Human Resources Management****3 Credits****Prerequisite:** MG 0500.

This course delves into the complexities of managing human resources in the global business arena. Business today is characterized by the relentless pace of globalization through the formation of international collaborations, mergers, joint ventures, and the opening of new markets. A major challenge posed by this landscape is the need to understand the similarities and differences in people management practices across cultures and countries. As firms enter global markets, hire foreign employees, or outsource work to foreign countries, human resources management practices such as recruitment, training, compensation, performance management, and employee relations become more complex. Legal and regulatory requirements of foreign countries, cultural differences, expatriate management, and workforce mobility become important considerations for global businesses. This course explores these complexities and analyzes in-depth the people-related issues in different countries.

**MG 0540 Cross-Cultural Management****3 Credits**

This course develops a framework for distinguishing the various stages of cooperative relationships across national cultures, which have distinct characteristics and call for different modes of behavior. The stages of this framework include: identifying a cross-cultural win-win strategy; translating the strategy into viable action plans; executing the strategy and making cross-cultural collaboration happen; and assuring that emerging synergistic organizations become self-initiating entities. The course identifies and discusses in detail the necessary managerial skills for the support of each of these stages.

**MG 0545 Law and Human Resources Management****3 Credits****Prerequisite:** MG 0503.

This course examines law and public policy issues relating to employee rights and obligations, including employment discrimination, OSHA, pension and benefit issues, minimum wage, and workers' compensation. The course provides a basic overview of the law and its relevance to human resource strategy and operations.

**MG 0550 International Business Law and Regulation****3 Credits****Prerequisite:** MG 0503.

This course examines public and private international law and regulation, emphasizing issues relevant to doing business internationally.

**MG 0555 Labor Relations****3 Credits****Prerequisite:** MG 0505.

The dual aim of this course is to acquaint students with the dynamics of the labor-management relationship and to make them better negotiators and managers of workplace conflict. Toward these ends, this course examines the processes of bargaining and dispute resolution, primarily in the context of the unionized environment. Case studies, law cases, and experiential exercises are used to explore issues such as negotiations strategy, mediation, and arbitration. Successful models of cooperative relations between management and labor are also covered.

**MG 0560 Career Planning and Development****3 Credits****Prerequisite:** MG 0500.

This course provides students an opportunity to explore career planning and development issues from two perspectives, as a job-seeking candidate and as an employer engaged in the hiring and development process of employees. The course will provide theoretical background on a number of career development topics, including: career development over the life span, career transitions, work-family balance, and post-retirement issues. Cases on individuals negotiating career issues such as new roles associated with promotion, managing technical or entrepreneurial careers, aspects of derailment and family issues will be presented. The second part of the course will be devoted to experiential activities that are designed to enhance one's career planning skills. Students take a self-assessment survey and participate in workshops on resume creation, mock interviewing, and social media applications associated with the job search.

**MG 0580 Contemporary Topics in Management and Human Resources****1-3 Credits**

This course examines recent practitioner and academic literature in various areas of management. Topics vary each semester. Guest speakers may be invited as appropriate.

**MG 0584 Global Competitive Strategy****3 Credits**

This course considers the formulation of effective policy and accompanying strategy actions, and the management of such policies and actions. It examines the role of the general manager in this process and presents the diversified issues and problems the management of a business firm may be required to consider and solve in strategic planning. This course also examines the problems and tasks of strategy implementation and the general manager's function of achieving expected objectives and establishing new ones to assure the continuity of the business organization. Students are required to prepare a business plan as part of this course.

**MG 0595 Contemporary Topics in Human Resources Management****3 Credits**

This course examines recent academic literature in various areas of Human Resources Management. Topics vary each semester to fit the interests of the seminar participants. Guest speakers may be invited as appropriate.

# Management of Technology (MOT)

## MOT 0405 Supply Chain Design

**3 Credits**

This course deals with the optimization of processes in a supply chain using analytical techniques and modeling. The term "supply chain" refers to all the resources required in moving material through a network of manufacturing processes, quality assurance measures, maintenance, and customer interfaces to produce, deliver, and maintain a product. These are modeled using simulation of this chain, permitting an analyst to design the supply chain and to predict its performance. Students are taught to create discrete simulation models that will reflect the actual performance of a supply chain, prior to committing investments in inventory, procurement and fabrication. These simulations offer three general benefits: a) may be used to achieve an optimized design; b) may be used in solving production expansion needs; and c) can be used to locate and correct problems in an existing manufacturing system.

## MOT 0407 Design of Manufacturing Systems and Processes

**3 Credits**

In this course, students will learn the significance and ramifications of "Lean Manufacturing" practices and advantages they provide to a manufacturing company. They will learn how to analyze the cross functional processes and to understand how strategic business objectives are translated into specific actions involving facilities, equipment, new skills, and process improvements that must be achieved. Tactical planning and execution design are introduced using specific analytical techniques including: (1) statistical segmentation of demand, (2) production and inventory considerations of facility and product design, including the impacts of variability, (3) use of statistical segmentation for make-to-stock, make-to-order, and make-to-plan strategies, (4) introduction to replenishment techniques including: level loading, rhythm cycles and considerations for safety and cycle stock, and (5) use of postponement strategies in optimizing inventory control.

## MOT 0415 Information Systems

**3 Credits**

This course offers insights into the capabilities of modern software and computing systems, allowing prospective technology managers to discriminate between effective and ineffective applications of software and network systems - considerations essential to managing businesses that depend upon efficient data and information processing. The course covers inputs, outputs, storage, transmission media and information processing, and networking. The course presents current Information Technology (IT) topics designed to enable one with knowledge vital to a successful career as a manager. The student is provided with a knowledge of: hardware and software fundamentals, system categories, overviews of programming languages, networks and communications concepts, e-commerce concepts, cloud and distributed computing, middleware, database technology, ERP with an overview of the SAP product, system planning, systems development methodologies, traditional and object oriented analysis and design techniques, software package evaluation and selection techniques, IT management issues and practices. In class case studies are discussed and lectures may at times delve into deeper technical matters. This course provides the student with both conceptual and managerial knowledge as well as practical hands on knowledge, useful in joint project team settings and designed to allow one to better lead and participate in company projects.

## MOT 0420 Design for Economy and Reliability

**3 Credits**

Considerations of reliability permit a product to achieve a desired performance throughout its service life, thereby satisfying those who have purchased it. Careful thought and design produce reliability and economy of manufacture. This course instructs the prospective technology manager in the considerations leading to creation of cost-effective products of quality and presents: (1) the Total Design method, (2) concurrent engineering and the effective use of design reviews, (3) quality function deployment, (4) cost structures and models, (5) materials selection and economics, (6) robust design validation techniques and the Taguchi method, and (7) the Fault Tree and its use as a diagnostic aid in design validation.

## MOT 0450 Planning, Research, and Development

**3 Credits**

This course addresses the formation and development of new ideas and their subsequent use in the creation of products and services. This involves the creation of systems developed from the integration of knowledge in design, development, software and economics and the application of Earned Value and Accountancy. The knowledge so gained is to be applied, often iteratively, to create new conceptions of products and service. This work simultaneously addresses performance and cost. Graphic methods for planning projects are instructed. In addition specialized analytical processes are presented that permit an evaluation and critique of new concepts. These processes and techniques are applied in group activities. In addition, the course requires essential research into specific issues. This research is to be undertaken as part of homework assignments on recommended subjects in which the students will learn the methods that serve to enhance their knowledge and communicate this to enrich the lecture sessions in each class. In summary, the means for developing new ideas and methods to apply them are presented in this course. These newly learned resources will be applied in group actions to gain experience in their use and thus create useful tools for future circumstances that require their application.

## MOT 0460 Project Management

**3 Credits**

This course concentrates on the general methodology of managing a technology project from concept to operational use with emphasis on the functions, roles, and responsibilities of the project manager. Study of the basic principles and techniques related to controlling resources (i.e. people, materials, equipment, contractors, and cash flow) to complete a technology project on time and within budget while meeting the stated technical requirements. Through group and individual activities, including case study review, students will learn to apply project management tools and techniques.

## MOT 0465 Agile Project Management

**3 Credits**

Provides an introduction to Agile concepts and tools to create and improve customer and user value. A core set of lean and Agile concepts are presented and applied. Agile project management methods such as scrum or Kanban have become the de-facto standard in software development and are increasingly used in other areas as well. This course is an introduction to scrum and focuses on building experience with the method. Other Agile methods are covered as well. The course content, in addition to reading assignments, uses practical assignments such as case studies, projects, and simulations to provide applied experience with Agile practice.

**MOT 0470 Leadership in Technical Enterprise****3 Credits**

This course introduces major leadership theories and explores the issues and challenges associated with leadership of technical organizations. The course integrates readings, experiential exercises, and contemporary leadership research theory. Participants investigate factors that influence effective organizational leadership as well as methods of enhancing their own leadership development. The course prepares executives, supervisors, and managers to master the complex interpersonal, social, political, and ethical dynamics required for leading modern organizations.

**MOT 0485 Management of Intellectual Property****3 Credits**

Intellectual property may exist in many forms and often goes unrecognized as a part of the wealth of corporations when it can actually represent the most valuable property a corporation holds. This course instructs students in how to recognize the different types of intellectual property and the different forms of protection that may be used to protect its loss to competitive agencies. In addition to enlightenment as to what form it may take, the students are instructed in how to determine its monetary value and how to use it to advance important company objectives such as increasing sales volume and how to establish policies and methods to protect it from theft by competitive firms. Throughout the course, students learn how to address the legal issues surrounding the rights of ownership and the existence of infringements. They recognize the specific issues that distinguish an invention (or any other form of intellectual property) from its competition, causing it to obtain an edge in the market place.

**MOT 0500 Introduction to Systems Engineering****3 Credits**

This course introduces students to the fundamental principles of systems engineering (SE) and their application to the development of complex systems. It describes the role that systems engineering plays as an integral component of program management. Topics include requirements analysis, concept definition, system synthesis, design trade-offs, risk assessment, interface definition, engineering design, system integration, and related systems engineering activities. The Friedman-Sage matrix is used as a framework for analysis purposes. The course defines the breadth and depth of the knowledge that the systems engineer must acquire concerning the characteristics of the diverse components that constitute the total system. Case studies and examples from various industries are used to illustrate the systems engineering process.

**MOT 0510 Design for Reliability****3 Credits**

This course will present techniques to prevent operational failures through robust design and manufacturing processes. Engineering design reliability concepts based on statistical models and metrics will be introduced. Techniques to improve reliability, based on the study of root-cause failure mechanisms will be presented. Students will gain the fundamentals and skills in the field of reliability as it directly pertains to the design and the manufacture of software, electrical, mechanical, and electromechanical products. The course provides insight on how to incorporate reliability, availability, maintainability, and serviceability aspects (RAMS) into all phases of the product lifecycle.

**MOT 0515 Independent Study****3 Credits**

This course is intended to broaden the student's knowledge in a specific area of interest. Students may pursue topics or projects under the supervision of a faculty member. Enrollment by permission only.

**MOT 0525 Principles of Quality Management****3 Credits**

This course is designed to provide a comprehensive coverage of quality management including planning, assurance and control. It provides an introduction to the fundamental concepts of statistical process control, total quality management, Six Sigma and the application of these concepts, philosophies, and strategies to issues arising in government and industry. Emphasis will be placed on both theory and implementation methods. Students will gain an understanding of the application of the numerical tools used by teams in the quality management problem-solving process. Statistical methods and case studies are employed. The course is designed to assist students in developing processes by which they will be able to implement these methods in their working environment.

**MOT 0591 Capstone I: Project Definition and Planning****3 Credits**

In this first semester of the capstone course, students form project groups, conceive technical approaches to problem solutions, and develop detailed plans and a schedule for project activities. Students execute the planning process using appropriate professional software such as Microsoft Project. Students in each team produce a detailed project plan defining the work to be done (task descriptions), the task/subtask organizational structure, task responsibilities (assigning who does what), the task execution schedule (e.g., Gantt charts), areas of risk and risk abatement concepts, and provide an explanation of the value of the work to be performed to fulfill the objectives.

**MOT 0592 Capstone II: Project Execution and Results****3 Credits**

The second semester of the capstone course concerns implementation of the project plan developed in the prior semester. This typically includes hardware fabrication, software development supporting analytical work, detailed design, experimental studies, system integration, and validation testing, all of which serve as proof of meeting project objectives in data and functional demonstrations. Project teams submit a final report for grading and make a formal presentation to faculty, mentors, and interested personnel from associated industries.

## Marketing (MK)

**MK 0101 Principles of Marketing****3 Credits**

**Prerequisite:** Sophomore standing.

This course introduces the fundamental concepts and theories that drive day-to-day marketing decisions. A thorough understanding of the marketplace (consumer or business-to-business) is at the heart of such decision making. In this course, students will learn to identify and satisfy customer's wants and needs. The core tools that enable managers to move from decision-making to action are addressed, namely: product development, pricing, channel management and structure, and promotions (including advertising and sales). Additional topics include global marketing, societal and marketing ethics, and digital marketing. Students are required to work in a team to construct a marketplace analysis for a chosen product/service.

**MK 0212 Consumer Behavior****3 Credits**

**Prerequisites:** MK 0101; Junior or senior standing.

This course provides students with an understanding of the behavior of consumers in the marketplace, using an interdisciplinary approach that employs concepts from such fields as economics, psychology, social psychology, sociology, and psychoanalysis. Topics include motivation, perception, attitudes, consumer search, and post-transactional behavior.

<b>MK 0221 Sales and Sales Management</b>	<b>3 Credits</b>	<b>MK 0311 Marketing Research</b>	<b>3 Credits</b>
<b>Prerequisites:</b> MK 0101; junior or senior standing.		<b>Prerequisites:</b> MK 0101; EC 0278 or MA 0017 or MA 0217 or PY 0201 or SO 0221; junior or senior standing.	
This course is intended to give the student an understanding of the important role of the sales function in the overall marketing effort of the firm and in the firm's overall success. The course focuses on the sales process (prospecting, making presentations, handling objections and closing the sales), and the management of the sales force (recruiting, training, motivating, compensating, and supervising salespeople). Ethical issues in selling and new technologies that impact the sales effort are also covered.		This course gives students an appreciation of the role of marketing research in understanding customers to better address their needs and wants, as well as in reducing the risks associated with marketing decisions. Topics include problem formulation, research design, data collection instruments, sampling, data analysis, and communication of results. Students will get hands-on experience with different stages of the marketing research process.	
<b>MK 0231 Advertising</b>	<b>3 Credits</b>	<b>MK 0312 Global Marketing</b>	<b>3 Credits</b>
<b>Prerequisites:</b> MK 0101; junior or senior standing.		<b>Attributes:</b> WDIV World Diversity	
This course focuses on strategic management of a firm's integrated marketing communications, the most notable element of which is advertising. It emphasizes the importance of seamlessly and synergistically coordinating numerous promotional mix elements to create a uniquely memorable voice with which to communicate and engage the target audience in a lasting relationship with the firm's brand. Topics include advertising message strategy, creative strategy and execution, media strategy, and various relationship-building promotional tools. Also discussed are current events and ethical issues in advertising and promotion. Through activities and projects, students prepare for careers in advertising and related industries.		<b>Prerequisites:</b> MK 0101; junior or senior standing.	
<b>MK 0241 Digital Marketing</b>	<b>3 Credits</b>	<b>MK 0321 Marketing Channels</b>	<b>3 Credits</b>
<b>Prerequisites:</b> MK 0101; junior or senior standing.		<b>Prerequisites:</b> MK 0101; junior or senior standing.	
From social networks to mobile applications, marketing in the digital age is markedly different than in the past. The course identifies marketing strategies that work in this new environment. Students will study how e-business and digital marketing continue to alter the business landscape and how certain theoretical frameworks can help to explain some of the current issues in the field. Specifically, students will examine how digital marketing has affected product, pricing, distribution, research, communication, and public policies.		This course provides a management focus and managerial framework to the discipline of distribution and channel management, emphasizing the design and management of marketing channels as a key strategic tool in satisfying the needs of the customers in the new millennium. The course integrates theory and practice, and applies them to the decision-making processes. The course also discusses the importance of the Internet as a marketing channel for the distribution of goods and services.	
<b>MK 0251 Social Media Marketing</b>	<b>3 Credits</b>	<b>MK 0322 Business-to-Business Marketing</b>	<b>3 Credits</b>
<b>Prerequisites:</b> MK 0101; junior or senior standing.		<b>Prerequisites:</b> MK 0101; Junior or senior standing.	
The course takes an in-depth look at social networks and social media platforms (e.g., blogs, discussion forums, Facebook, Twitter, other forums of user-generated content) from a strategic perspective. The primary focus of this course will be on understanding social media as part of a brand's marketing communications, how to build strategies and tactics to help brands differentiate and rise above the noise on the social web, and how to track their effectiveness. Topics to be covered include constructing a brand strategy on social media, engaging influencers, content development, social media analytics and measurement, and social media platforms.		This course examines the characteristics that differentiate industrial from consumer marketing. Topics include the nature of industrial demand; buyer characteristics; industrial market research; competitive bidding; selling of industrial products; sales and advertising strategies in marketing to business, government, and non-profit organizations; and practices and policies in the distribution of industrial goods.	
<b>MK 0261 Sports Marketing</b>	<b>3 Credits</b>	<b>MK 0331 Media Strategy</b>	<b>3 Credits</b>
<b>Prerequisites:</b> MK 0101; junior or senior standing.		<b>Prerequisites:</b> MK 0101; Junior or senior standing.	
This course is offered to address the growing interest in the sports industry as a business career. The course will provide an overview of how sports marketing can work as a component of a fully integrated marketing communication strategy. The course is designed to help students better understand the sports consumer, and how corporations and sports organizations can apply core marketing concepts to help achieve their business objectives. Marketing strategies such as market segmentation, target marketing and the marketing mix are covered within the context of sporting event sponsorships and professional sports teams. Additional topics such as sports governing organizations, sports media, licensing and hospitality will be covered.		This course examines the basic processes involved in strategic media planning including budgeting, selecting media forms and media vehicles, media timing, and media audience measurement. Students understand the role of traditional and non-traditional media, as well as new media such as the Internet, as channels for communicating promotional messages to consumers. The course also covers varied media allocation models.	
		<b>MK 0332 Public Relations</b>	<b>3 Credits</b>
		<b>Prerequisites:</b> MK 0101; Junior or senior standing.	
		This course facilitates the fundamental understanding of audiences: receiving information from them, advertising management of their attitudes and responses, helping to set policies that demonstrate responsible attention to them, and constantly evaluating the effectiveness of all public relations programs. This inclusive role integrates all activities associated with ascertaining and influencing the opinions of a group of people. The course pays increasing attention to the use of electronic technology for messages from fax machines to e-mail to specialized networks in cyberspace.	

<b>MK 0341 Brand Management</b>	<b>3 Credits</b>	<b>MK 0500 Customer Value</b>	<b>3 Credits</b>
<b>Prerequisites:</b> MK 0101; Junior or senior standing.		<b>Prerequisite:</b> MK 0400.	
This course focuses on one element in the marketing mix: the product. It examines such questions as how should a firm effectively and efficiently manage its current product line and develop potential new products. Consideration is also given to strategic planning.		This course examines the concept of customer value with the goal of understanding how it can be used to achieve customer satisfaction, which in turn generates loyalty and, ultimately, a long-term customer-firm relationship. Topics include the nature of the costs and benefits associated with the notion of customer value, measuring and analyzing customer value and satisfaction, and understanding the associated concepts of customer loyalty and customer relationship management. The class consists of a mix of lectures, case analyses, in-depth qualitative research projects, and opportunities for practical applications, such as a marketing simulation.	
<b>MK 0342 Contemporary Issues in Marketing</b>	<b>3 Credits</b>	<b>MK 0510 Customer Behavior</b>	<b>3 Credits</b>
<b>Prerequisites:</b> MK 0101; Junior or senior standing.		This course offers an interdisciplinary approach to understanding the behavior of consumers in the marketplace, covering concepts from the fields of economics, psychology, social psychology, sociology, and psychoanalysis. Topics include motivation, perception, attitudes, consumer search, and post-transactional behavior.	
This seminar on current marketing issues familiarizes students with the latest issues, events, and problems in marketing. The subject matter for the course draws upon recent events in marketing and course materials are derived from current periodicals and cases.			
<b>MK 0391 Internship</b>	<b>3 Credits</b>	<b>MK 0520 Marketing Research</b>	<b>3 Credits</b>
<b>Prerequisite:</b> Junior standing.		This course provides an overview of the risks associated with marketing decisions and emphasizes developing skills for conducting basic market research. Topics include problem formulation, research design, data collection instruments, sampling and field operations, validity, data analysis, and presentation of results.	
Students may take two semesters of internship, approved by the department. Students must have a GPA of 2.5 or higher. Enrollment by permission only.			
<b>MK 0392 Internship</b>	<b>3 Credits</b>	<b>MK 0535 Building Brand Equity</b>	<b>3 Credits</b>
<b>Prerequisite:</b> Junior standing.		This course focuses on the theory and conceptual tools used to develop and implement product and service branding strategies, as means for insuring brand awareness, acceptance, and success, or "equity," in the marketplace. The course highlights the importance and impact of the brand in the marketplace; identifies various decisions involved in creating successful brands; provides an overview of different means for measuring brand effectiveness; and explores the existence of customer-brand relationships. The course incorporates three general modules: Module 1: Identifying/Developing Brand Equity, Module 2: Measuring Brand Equity, and Module 3: Managing Brand Equity.	
Students may take two semesters of internship, approved by the department. Students must have a GPA of 2.5 or higher. Enrollment by permission only.			
<b>MK 0393 Internship</b>	<b>1 Credit</b>	<b>MK 0540 Advertising Management</b>	<b>3 Credits</b>
<b>Prerequisite:</b> Junior standing.		This course provides a comprehensive overview of advertising and promotional processes, and develops strategies facilitating managerial decisions in the areas of advertising, public relations, sales promotion, and direct marketing. This course analyzes the importance and influence of advertising in the changing marketplace; provides students with an integrated approach for analyzing marketing communication opportunities; develops the capability for designing, implementing, and evaluating advertising campaigns; and promotes an understanding of the different methods of measuring advertising effectiveness.	
Students may take two semesters of internship, approved by the department. Students must have a GPA of 2.5 or higher. Enrollment by permission only.			
<b>MK 0397 Seminar in Marketing</b>	<b>3 or 6 Credits</b>	<b>MK 0550 Global Marketing</b>	<b>3 Credits</b>
<b>Prerequisites:</b> MK 0101; Senior standing.		This course investigates the role of marketing and marketing management in different environments. It focuses on the distinction between the various marketing activities in a domestic setting versus the impact of the cultural, political, and geographic issues faced in different countries and regions of the world.	
This is a special program involving independent study and research under faculty guidance. Open only to seniors majoring in marketing and approved by the department chair. Students must have an overall GPA of 2.5 or higher.			
<b>MK 0398 Seminar in Marketing</b>	<b>3 Credits</b>		
<b>Prerequisites:</b> MK 0101; Senior standing.			
This is a special program involving independent study and research under faculty guidance. Open only to seniors majoring in marketing and approved by the department chair. Students must have an overall GPA of 2.5 or higher.			
<b>MK 0400 Marketing Management</b>	<b>3 Credits</b>		
This course examines analytical and managerial techniques that apply to marketing functions with an emphasis on the development of a conceptual framework necessary to plan, organize, direct, and control the product and strategies needed for promotion, distribution and pricing of a firm's products. The course also considers the relationship of marketing to other units within a firm.			

**MK 0570 Digital Marketing**

The move to an Internet-based society is among the changes expected to have a significant impact on the way that business is, and will be, conducted. This course pays particular attention to the impact of Internet technology on marketing strategy and practices, and discusses Internet technology and e-business in the context of established marketing concepts such as promotion, distribution/logistics, pricing, retailing, marketing research, customer behavior, and other product/service decisions from a practical and academic perspective. Students develop an in-depth understanding of the marketing implications of this promising business management development.

**3 Credits****MK 0580 Multivariate Data Analysis for Decision Making****3 Credits****Prerequisite:** MK 0520.

With unprecedented growth in data availability, companies are increasingly focusing on data driven decision making in marketing. As most of this data is multivariate, an understanding of statistical techniques used to analyze it gains paramount importance. The objective of this course is to develop skills with a range of procedures for multivariate data analysis involving dimension reduction, pattern recognition, classification, and prediction. Students will engage in experiential exercises that require utilizing statistical software to organize and analyze data, interpreting the results, and presenting actionable conclusions for decision making.

**MK 0585 Seminar: Contemporary Topics in Marketing****3 Credits**

This course examines recent practitioner and academic literature in various areas of marketing, incorporating guest speakers as appropriate. Topics vary each semester to fit the interests of the seminar participants.

**MK 0590 Experimental Research in Marketing****3 Credits**

**Prerequisites:** MK 0400, MK 0520.

Experiments are widely used in marketing research to investigate cause and effect relationships, such as the impact of a price change on sales, or the impact of a new promotional campaign on brand awareness, or the impact of a change in the ingredients of a product on brand acceptance. This course is intended to acquaint the student with the basic topics of experimental design and analysis. It is intended to provide an understanding of the components of an experiment, the various types of experimental designs, the analysis of experimental results and when experiments are indicated as a research option.

## Mathematics (MA)

**MA 0010 Mathematics for Liberal Arts****3 Credits**

This course presents major mathematical concepts in an historical and cultural setting. Topics include geometry, set theory and logic, along with others that are the choice of the instructor. Students explore the interplay between mathematics, philosophy, and the arts in addition to the more traditional relationship between mathematics and the physical sciences. The course treats mathematics as an art for its aesthetic beauty and as a science, providing a mathematician's view of the subject rather than preparing students for a specific application of mathematics.

**MA 0011 Precalculus****3 Credits**

Topics in this course include: algebra; linear, rational, exponential, logarithmic and trigonometric functions from a descriptive, algebraic, numerical and graphical point of view; limits and continuity. Primary emphasis is on techniques needed for calculus. This course does not count toward the mathematics core requirement, and is meant to be taken only by students who are required to take MA 0119, MA 0145, or MA 0171 for their majors, but who do not have a strong enough mathematics background.

**MA 0015 Mathematics: An Exploration****3 Credits**

This course introduces various ideas in mathematics at an elementary level. It is meant for the student who would like to fulfill a core mathematics requirement, but who does not need to take mathematics for her or his major. Topics will vary, depending upon the instructor, but in general will include topics of both historical and current interest.

**MA 0016 Concepts of Calculus****3 Credits**

This course introduces differentiation and integration, and shows how these ideas are related. The course illustrates how important and interesting applied questions, when expressed in the language of mathematical functions, turn out to be questions about derivatives and integrals and, thus, can be solved using calculus. The basic concepts of calculus are numerically, algebraically, and geometrically investigated, using graphing technology to illustrate many of the underlying geometrical ideas. This is a terminal core course and is not a prerequisite for any other course. Please note that MA 0011 is not an appropriate course to take before taking MA 0016.

**MA 0017 Introduction to Probability and Statistics****3 Credits**

This introduction to the theory of statistics includes measures of central tendency, variance, Chebyshev's theorem, probability theory, binomial distribution, normal distribution, the central limit theorem, and estimating population means for large samples. Students who have received credit for any mathematics course at the 100-level or higher may not take this course for credit without the permission of the department chair.

**MA 0119 Applied Calculus I****3 Credits****Prerequisite:** Precalculus.

Topics in this course include: foundations of the calculus; differentiation of algebraic, exponential and logarithmic functions; extrema and curve sketching; applications of derivatives; antiderivatives; the Fundamental Theorem of Calculus; and integration of algebraic functions. A graphing calculator and Wolfram Alpha are among the technologies that may be used. Students who received credit for MA 0145 or MA 0171 may not take MA 0119 for credit.

**MA 0120 Applied Calculus II****3 Credits****Prerequisite:** MA 0119.

Topics in this course include: applications of the derivative, including implicit differentiation, related rates and linear approximation; integration of algebraic, transcendental and trigonometric functions; differentiation of trigonometric functions; techniques of integration; applications of the definite integral; infinite series. A graphing calculator and Wolfram Alpha are among the technologies that may be used. Students who receive credit for MA 0146 or MA 0172 may not receive credit for MA 0120.

**MA 0145 Calculus I for Chemistry, Engineering, and Physics Majors****4 Credits****Prerequisite:** Precalculus.

This course covers analytic geometry; continuous functions; derivatives of algebraic and trigonometric functions, product and chain rules, implicit functions; extrema and curve sketching; indefinite and definite integrals; applications of derivatives and integrals; exponential, logarithmic and inverse trig functions, hyperbolic trig functions, and their derivatives and integrals. It is recommended that students not enroll in MA 0145 unless they have a solid background in high school algebra and precalculus.

**MA 0146 Calculus II for Chemistry, Engineering, and Physics****Majors****4 Credits****Prerequisite:** MA 0145 or MA 0171.

This course covers applications of the integral to area, arc length, and volumes of revolution; integration by substitution and by parts; indeterminate forms and improper integrals; Infinite sequences and infinite series; tests for convergence, power series, and Taylor series; geometry in three-space.

**MA 0151 Functional Programming****3 Credits**

This course provides an introduction to the theory and practice of programming in the functional paradigm. Functional programming is based on a view of programs as data and computing as calculation. This approach facilitates the development of programs that are concise, elegant, and free of broad classes of errors. Topics covered will include a broad introduction to computing, symbolic representation of data, recursion, algebraic data types, the lambda calculus as a model of computing, higher-order functions and type systems. Students will complete the course with both the ability to program and a useful foundation for further study of topics in discrete math, logic, proof, and computer science theory. No prior programming experience is required. May be taken as one course in the core requirement in mathematics.

**MA 0171 Calculus I****4 Credits****Prerequisite:** Precalculus.

This is our most rigorous first-year calculus sequence. However, students are not expected to have had calculus before taking this course. Topics include functions; limits (including the epsilon-delta definition), continuity, and derivatives; trigonometric functions and their derivatives; applications; relative and absolute extrema, and curve sketching; related rates; Rolle's Theorem and the mean value theorem; antiderivatives, definite integrals and area, and the fundamental theorem of calculus. It is recommended that students not enroll in MA 0171 unless they have a solid background in high school algebra and precalculus. Students who have received credit for MA 0119 or MA 0145 may not take MA 0171 for credit.

**MA 0172 Calculus II****4 Credits****Prerequisite:** MA 0145 or MA 0171.

This course is the continuation of MA 0171. Topics include integration by substitution and by parts; areas between curves; volumes of revolution; inverse functions; logarithms and exponential functions; inverse trigonometric functions; indeterminate forms and l'Hospital's rule; improper integrals; and infinite sequences and series, including convergence tests, absolute and conditional convergence, power series and Taylor series. Students who have received credit for MA 0120 or MA 0146 may not take MA 0172 for credit.

**MA 0211 Applied Matrix Theory****3 Credits**

Students majoring in the sciences, economics, and business learn the basic techniques and applications of linear algebra, including solving linear systems of equations, determinants, linear geometry, eigenvalues, and eigenvectors. Closed to mathematics majors. Students may not receive credit for both MA 0211 and MA 0235. Mathematics majors may not take this course as a mathematics requirement or elective.

**MA 0217 Accelerated Statistics****3 Credits****Attributes:** EVAP Environmental Studies: Applied Professional Skills**Prerequisite:** MA 0119 or MA 0145 or MA 0171.

This introductory, calculus-based statistics course focuses on applications in business, statistics, and everyday events. Topics include descriptive statistics including mean, median, mode, standard deviation, histograms, distributions, box plots, and scatter plots; probability theory including counting rules, random variables, probability distributions, expected values, binomial and normal distributions, and the central limit theorem; inferential statistics including point estimates, confidence intervals, and hypothesis testing; and regression theory. Students learn to analyze data with the aid of common software packages. Mathematics majors may not take this course as a mathematics elective. Students who have received credit for MA 0352 may not take MA 0217 for credit.

**MA 0221 Applied Calculus III****3 Credits****Prerequisite:** MA 0120 or MA 0146 or MA 0172.

This course covers first order differential equations, vectors in 2-D and 3-D, partial differentiation and multiple integrals. This is the third course in the three-course sequence MA 0119, MA 0120, MA 0221.

**MA 0231 Discrete Mathematics****3 Credits**

Topics in this course include logic; sets; functions; equivalence relations and partitions; mathematical induction; and countability.

**MA 0235 Linear Algebra****3 Credits****Prerequisite:** MA 0231.

Students examine linear spaces and subspaces; linear independence and dependence; bases and dimension; linear operators; matrix theory; determinants and systems of linear equations; eigenvalues and eigenvectors. Students may not receive credit for both MA 0211 and MA 0235.

**MA 0245 Calculus III for Chemistry, Engineering, and Physics****4 Credits****Majors****Prerequisite:** MA 0146 or MA 0172.

Topics include partial differentiation; chain rule, exact differentials, maxima and minima; multiple integration; application to volumes, center of gravity; and polar, cylindrical, and spherical coordinates; vector arithmetic and algebra, dot and cross products, parametric equations, lines and planes; gradient, directional derivative, curl, divergence; line integrals, work, Green's theorem, surface integrals; Stokes's and divergence theorems.

**MA 0251 Ordinary Differential Equations****3 Credits****Prerequisite:** MA 0221 or MA 0245 or MA 0273.

This course presents the solution of first order differential equations and of higher order linear differential equations; power series solutions; Laplace transforms; and a multitude of applications. Mathematics majors may not take this course as a mathematics elective. Students who have received credit for MA 0331 may not take MA 0251 for credit.

**MA 0273 Multivariable Calculus****4 Credits****Prerequisite:** MA 0172 or MA 0146.

Topics in this course include vectors in the plane and in three-space; equations of lines and planes; vector functions; arc length; functions of several variables, limits, continuity, differentiability and partial derivatives, the gradient, directional derivatives; tangent planes; relative and absolute extrema; multiple integration in cartesian, cylindrical, and spherical coordinates; vector fields; line integrals; Green's theorem.

<b>MA 0300 Topics in Discrete Mathematics</b>	<b>3 Credits</b>	<b>MA 0354 Actuarial Problem Solving</b>	<b>1 Credit</b>
<b>Prerequisite:</b> MA 0231.		<b>Prerequisite:</b> MA 0352 (may be taken concurrently).	
This course builds on the skills developed in MA 0231. Topics include basic combinatorics (permutations, combinations, counting complicated sets, binomial coefficients), elementary number theory (divisors, Euclid's algorithm, modular arithmetic), and elementary graph theory (connectivity, circuits, cycles, planar graphs, graph isomorphisms). Sophomores will have priority registration for this course.		This course explores the methods and techniques of solving problems in actuarial mathematics for students interested in the actuary field. This course covers, via student led problem sessions and lectures, the tools for quantitatively assessing risk as presented on Society of Actuaries Exam P.	
<b>MA 0331 Applied Mathematics</b>	<b>3 Credits</b>	<b>MA 0361 Topics in Algebra</b>	<b>3 Credits</b>
<b>Prerequisites:</b> MA 0235, MA 0273.		<b>Prerequisite:</b> MA 0334.	
This course covers the theory and solution of ordinary differential equations: first-order equations, linear equations of arbitrary order, and linear systems; power series solutions; Laplace transforms; and existence and uniqueness of solutions. Students who have received credit for MA 0251 may not take MA 0331 for credit.		This course investigates three topics in greater depth than can be done in the first linear or abstract algebra course. Topics may include canonical forms for matrices, metric linear algebra, ideal theory, finite non-abelian groups, and Galois Theory. The course typically includes one linear and one abstract algebra topic.	
<b>MA 0332 Partial Differential Equations</b>	<b>3 Credits</b>	<b>MA 0371 Real Analysis</b>	<b>3 Credits</b>
<b>Prerequisites:</b> MA 0245 or MA 0273; MA 0251 or MA 0331.		<b>Prerequisites:</b> MA 0231, MA 0273.	
Topics in this course include first order PDEs and the method of characteristics; separation of variables for linear homogeneous PDEs; eigenvalue problems; Fourier series; solution of the 1-D heat equation, the 1-D wave equation, and the 2-D Laplace equation, both homogeneous and non-homogeneous; and Fourier transforms.		This course examines the set of real numbers as a complete, ordered, archimedean field; R as a linear vector space equipped with inner product and norm; metrics, particularly Euclidean, on R, topological concepts: continuity, connectedness, and compactness; the intermediate value, extreme value, monotone convergence, Bolzano/Weierstrass and Heine/Borel theorems; convergence and uniform convergence of sequences of continuous functions; differentiation.	
<b>MA 0334 Abstract Algebra</b>	<b>3 Credits</b>	<b>MA 0373 Complex Analysis</b>	<b>3 Credits</b>
<b>Prerequisites:</b> MA 0231, MA 0235.		<b>Prerequisites:</b> MA 0231, MA 0273.	
Students study group theory, rings and ideals, integral domains, and fields.		Topics in this course include algebra of complex numbers, Cauchy-Riemann equations and analytic functions, complex differentiation, integration in the complex plane, Cauchy's Theorem and integral formula, conformal mapping, Laurent series and residue theory, and applications.	
<b>MA 0337 Number Theory</b>	<b>3 Credits</b>	<b>MA 0377 Numerical Analysis</b>	<b>3 Credits</b>
<b>Attributes:</b> EDCG Educational Studies Cognate		<b>Prerequisites:</b> MA 0172, MA 0235, proficiency in a computer language.	
<b>Prerequisite:</b> MA 0231.		This course investigates computer arithmetic, round-off errors, the solution of nonlinear equations, polynomial approximation, numerical differentiation and integration, and the solution of systems of linear equations via student-written code to implement the algorithms and/or the use of available software.	
<b>MA 0342 Theory of Computation</b>	<b>3 Credits</b>	<b>MA 0383 Modern Geometry</b>	<b>3 Credits</b>
<b>Prerequisite:</b> MA 0231.		<b>Attributes:</b> EDCG Educational Studies Cognate	
This course explores what computers can and can't do, although it does not require any background in computer science or programming. Topics include finite state machines, push-down automata, Turing machines and recursive functions; mechanisms for formal languages, such as regular grammars, context-free grammars, context-sensitive grammars; and decidable versus undecidable problems.		<b>Prerequisites:</b> MA 0231, MA 0235.	
<b>MA 0351 Probability Theory</b>	<b>3 Credits</b>	Topics in this course include: foundation for plane geometries; theorems of Menelaus, Ceva, Desargues, Pascal, Brianchon, and Feuerbach; inversion and reciprocation transformations; projective, Riemannian and Lobachevskian geometries; and Poincaré model.	
<b>Attributes:</b> EDCG Educational Studies Cognate			
<b>Prerequisites:</b> MA 0231 or CR 0245; MA 0245 or MA 0273.			
Topics in this course include counting techniques; axiomatic probability theory; discrete and continuous sample spaces; random variables, cumulative distribution functions, probability density and mass functions; joint distributions; expected value and moments; common distributions like the normal, binomial, and Poisson distributions; and limit laws.		<b>MA 0385 Point Set Topology</b>	<b>3 Credits</b>
<b>MA 0352 Mathematical Statistics</b>	<b>3 Credits</b>	<b>Prerequisite:</b> MA 0371.	
<b>Attributes:</b> EDCG Educational Studies Cognate		This course considers topological spaces, continuous functions; product, metric, and quotient spaces; countability and separation axioms; existence and extension of continuous functions; compactification; metrization theorems and complete metric spaces.	
<b>Prerequisite:</b> MA 0351.			
This course covers transformations of random variables; statistical application of probability; theory of sampling and the Central Limit Theorem; variances of sums and averages; estimation and hypothesis testing; and least squares, curve-fitting, and regression.		<b>MA 0390 Honors Seminar I</b>	<b>3 Credits</b>
		This course is open to senior mathematics majors with a mathematics GPA of 3.5 or higher and invited junior and senior mathematics majors with demonstrated ability who have been recommended by the mathematics faculty. This seminar provides talented students with an opportunity to undertake individualized study under faculty direction. Participants present several lectures before a group of peers. The seminar's subject matter varies each semester.	

**MA 0391 Honors Seminar II****3 Credits**

This course is open to senior mathematics majors with a mathematics GPA of 3.5 or higher and invited junior and senior mathematics majors with demonstrated ability who have been recommended by the mathematics faculty. This seminar provides talented students with an opportunity to undertake individualized study under faculty direction. Participants present several lectures before a group of peers. The seminar's subject matter varies each semester.

**MA 0395 Special Topics in Mathematics****3 Credits**

**Prerequisites:** MA 0231; additional mathematics courses depending on the topic.

Mathematical topics not currently among the department's offerings can be offered one-time or to allow a professor the opportunity to "test drive" a course for the first time.

**MA 0397 Internship****1-3 Credits**

**Prerequisite:** Senior standing.

The internship program provides senior mathematics majors with opportunities to gain practical, career-related experience in a variety of supervised field settings. Student interns select from a variety of placements, especially those requiring applications of mathematics, numerical methods, and statistics. Interns spend a minimum of 10 hours per week working at the placement site and complete the required academic component specified by their faculty advisor. Internship credits vary; interns may register for a summer session and/or one or two semesters for an overall maximum of six credits. In addition, an internship must satisfy the requirements outlined in the University Internship Policy, which is available from the Career Planning Center. An internship may not take the place of a mathematics elective. Enrollment by permission only.

**MA 0398 Internship****1-3 Credits**

**Prerequisite:** Senior standing.

The internship program provides senior mathematics majors with opportunities to gain practical, career-related experience in a variety of supervised field settings. Student interns select from a variety of placements, especially those requiring applications of mathematics, numerical methods, and statistics. Interns spend a minimum of 10 hours per week working at the placement site and complete the required academic component specified by their faculty advisor. Internship credits vary; interns may register for a summer session and/or one or two semesters for an overall maximum of six credits. In addition, an internship must satisfy the requirements outlined in the University Internship Policy, which is available from the Career Planning Center. An internship may not take the place of a mathematics elective. Enrollment by permission only.

**MA 0399 Independent Study****1-3 Credits**

Independent study provides students with the opportunity to examine areas not covered in the undergraduate curriculum. Under the guidance of a faculty member, advanced students learn about an area in mathematics through reading and research. Independent study includes written work in the form of exercises or papers. Students apply to a professor under whose direction they wish to study and obtain the approval of the department chair. This course may not replace a mathematics elective to fulfill the requirements for the major, unless special permission is given by the department chair.

**MA 0401 Introduction to Applied Mathematics****3 Credits**

This course provides an introduction to essential techniques in the study of ordinary differential equations, including separation of variables, characteristic equations for linear equations, variation of parameters and Laplace transforms. The course also includes an introduction to fundamentals of applied linear algebra, including solutions of systems of linear equations, vector spaces, matrices, determinants, eigenvalues and eigenvectors. Students should have a solid undergraduate background through multivariable calculus.

**MA 0417 Applied Statistics I****3 Credits**

This course introduces students to the techniques in applied statistical methods as used in the physical sciences, social sciences and business. Topics include probability (reliability, discrete and continuous distributions); descriptive and exploratory statistics using analytic and graphical tools; basic statistical testing (sampling techniques, theory of estimation and standard hypothesis testing); regression analysis (normal linear model, multivariate regression, and model building as time permits); correlation techniques; analysis of variance and factorial designs if time permits; proportion tests, chi-squared analysis and other discrete data techniques as time permits. Included is the use of computer software, such as R, SPSS, and Minitab. Students should have a solid undergraduate background through multivariable calculus.

**MA 0418 Applied Statistics II****3 Credits**

**Prerequisite:** MA 0417.

This course is a continuation of MA 0417, Applied Statistics, and covers additional statistical concepts used in the physical sciences, social sciences, business and health studies. Topics include, but are not limited to, confidence intervals, regression analysis (multiple regression, logistic regression and regression with categorical predictors), analysis of variance (two-way, factorial design, repeated measures and mixed models), analysis of categorical variables (measures of association, chi-squared tests, odds ratio, relative risk, McNemar's test) and non-parametric tests. One statistical package such as R, SPSS and Minitab, will be used throughout the course. Students should have a laptop.

**MA 0435 Linear Algebra****3 Credits**

This graduate-level treatment of linear algebra includes general vector spaces; basis and dimension; linear transformations; linear operators and the relationship to matrices; inner product spaces and orthonormalization; least squares approximations, Hilbert spaces; diagonalization and other canonical forms for matrices; eigenvalues, eigenvectors, and applications to ordinary differential equations; and Hermitian, unitary, and positive definite matrices. The course also incorporates a discussion of the historical development of linear algebra, the relationship of linear algebra to analysis, and a coordinated introduction to a symbolic algebra program such as Maple or Mathematica. Students should have a solid background in undergraduate linear algebra or applied matrix theory, which is well-covered by MA 0401.

**MA 0436 Abstract Algebra****3 Credits**

This graduate level treatment of abstract algebra with a focus on ring theory includes the integers, the division algorithm divisibility criteria, primes and unique factorization; equivalence relations and congruence classes, modular arithmetic; rings, basic properties of rings, ideals, ring homomorphisms; ring of polynomials, divisibility algorithm, irreducible elements and unique factorization properties, roots and irreducibility; quotients rings, prime and maximal ideals; Euclidian domains, principal ideals domains, factorization domains, field of quotients of an integral domain; introduction to group theory. Students should have a solid background in theoretical mathematics and linear algebra at the undergraduate level. This is a proof-intensive course.

<b>MA 0451 Probability Theory</b>	<b>3 Credits</b>	<b>MA 0532 Partial Differential Equations</b>	<b>3 Credits</b>
This graduate-level treatment of the theory of probability includes a brief review of probability spaces and finite counting techniques, random variables and distribution functions, density, mass functions, and expectation. The course also examines the standard random variables; multivariate distributions; functions and sums of random variables; limit theorems - weak and strong law of large numbers and the central limit theorem. The course also discusses the historical development of probability. Students should have a solid background in undergraduate mathematics through multivariable calculus, and some familiarity with theory and proof in mathematics.		This graduate-level treatment of partial differential equations includes boundary value problems, Fourier series, and Fourier transforms. Students should have a solid background in undergraduate mathematics through multivariable calculus, ordinary differential equations, and applied matrix theory or linear algebra, which is well-covered by MA 0401.	
<b>MA 0452 Statistics Theory</b>	<b>3 Credits</b>	<b>MA 0535 Advanced Abstract Algebra</b>	<b>3 Credits</b>
<b>Prerequisite:</b> MA 0451.		<b>Prerequisite:</b> MA 0436.	
This graduate-level treatment of the theory of mathematical statistics includes theory of estimators, maximum likelihood techniques; theory of estimation; hypothesis testing theory - decision analysis; and Bayesian methods. The course also discusses the historical development of statistics. This is a proof intensive course.		A collection of topics in advanced abstract algebra, this course includes group theory, field extensions and Galois. Students should have a solid background in theoretical mathematics at the undergraduate level and in linear algebra. This is a proof-intensive course.	
<b>MA 0471 Real Analysis</b>	<b>3 Credits</b>	<b>MA 0537 Number Theory</b>	<b>3 Credits</b>
This graduate-level treatment of real analysis includes the completeness of the real numbers; the topology of Euclidean n-space and its generalizations to metric and topological spaces; convergence and continuous functions; sequences of functions; general differentiability; the theory of integration and the Lebesgue integral; infinite series and uniform convergence; and a discussion of the historical development of real analysis. Students should have a solid background in undergraduate mathematics through second-semester calculus and theoretical mathematics.		This graduate-level survey of the problems and techniques of number theory includes elementary number theory and introductions to analytic and algebraic number theory. Students should have some familiarity with theory and proof in mathematics. This is a proof-intensive course.	
<b>MA 0472 Complex Analysis</b>	<b>3 Credits</b>	<b>MA 0550 Classical Financial Mathematics</b>	<b>3 Credits</b>
This graduate-level treatment of complex analysis includes the complex number field and its properties; complex analytic functions and their differences with real functions; the complex integral; Cauchy's Theorem and consequences; and a discussion of the historical development of complex analysis. Students should have a solid background in undergraduate mathematics through multivariable calculus and some familiarity with theory in proof in mathematics. This is a proof-intensive course.		This course covers the basic mathematics of classical financial investments. It will include the basic formulas for compound interest and effective yields, infinite series and exponential functions, annuities and perpetuities, amortization and sinking funds, time value of money, and bond and stock discounts. Students should have a solid background in undergraduate mathematics through second-semester calculus.	
<b>MA 0495 Special Topics (Shell)</b>	<b>3 Credits</b>	<b>MA 0565 Use of Technology in the Classroom</b>	<b>3 Credits</b>
Mathematical topics not currently among the department's offerings may be offered once or to allow a professor the opportunity to "test drive" a course for the first time.		Designed for teachers, this course surveys various computer software mathematics packages suitable for use in the classroom, such as Maple, Mathematica, MATLAB, SKETCHPAD, and ISETL. The course includes a description of the programs and discusses how they can be integrated into a classroom setting. Students should have a solid background in undergraduate mathematics through second-semester calculus.	
<b>MA 0510 Foundations and Set Theory</b>	<b>3 Credits</b>	<b>MA 0577 Numerical Analysis</b>	<b>3 Credits</b>
The foundations of modern mathematics lie in set theory and logic. This course provides a graduate-level treatment of these areas in the foundation of theoretical mathematics. It is also a good preparation for proof-intensive courses for those without a solid undergraduate foundation in theoretical mathematics. Students should have some familiarity with theory and proof in mathematics.		This course provides a graduate-level treatment of numerical analysis and the numerical solution of mathematical problems and includes an introduction to computer implementation of numerical algorithms. Students should have a solid background in undergraduate mathematics through multivariable calculus.	
<b>MA 0531 Dynamical Systems</b>	<b>3 Credits</b>	<b>MA 0578 Mathematics of Financial Derivatives</b>	<b>3 Credits</b>
This course provides an introduction to the study of dynamical systems from the point of view of both continuous time and discrete time systems. Topics include fixed point and stability analysis for linear and nonlinear flows in one and two dimensions, phase plane analysis, bifurcations and limit cycles, one-dimensional maps, chaos, and Lyapunov exponents. Students should have a solid background in undergraduate mathematics through multivariable calculus, ordinary differential equations, and applied matrix theory or linear algebra, which is well-covered by MA 0401.		<b>Prerequisite:</b> MA 0550.	
		This course covers the theory of financial derivatives, including an explanation of option pricing theory and investments, the idea of financial derivatives, stochastic differential equations, and the Black-Scholes model.	
		<b>MA 0583 Geometry</b>	<b>3 Credits</b>
		This course offers a graduate-level treatment of Euclidean and non-Euclidean geometry and is highly recommended for teachers. Students should have some familiarity with theory and proof in mathematics. This is a proof-intensive course.	
		<b>MA 0585 Topology</b>	<b>3 Credits</b>
		<b>Prerequisite:</b> MA 0471.	
		This course provides an introductory, graduate-level treatment of point-set and algebraic topology and topological methods. This is a proof-intensive course.	

**MA 0590 Capstone Project**

This is an independent project or presentation planned by the student with the help of a faculty mentor and produced by the student through original work. The project is typically based on the content of a course and is worked on in conjunction with that course, but students can also learn the necessary material in a three-credit independent study with their mentor.

**MA 0599 Independent Study****0 Credits**

**3 Credits**  
The Master's Degree Program in Mathematics affords each student the opportunity to do an independent study course with a professor/mentor. This can either be an existing course in the program or a course on an advanced topic in mathematics. In the latter case the syllabus and requirements are developed by the student and the faculty mentor.

## Mechanical Engineering (ME)

**ME 0201 Engineering Statics****3 Credits**

**Prerequisites:** PS 0115, PS 0115L, MA 0146.

This introduction to rigid body mechanics using vector representation covers free body diagrams and static equilibrium in two- and three-dimensional space; solves problems in trusses, frames, and simple mechanisms; and develops methods in problem-solving techniques using computer-based approaches. Students perform lab experiments to support lecture theories and prepare professional-level reports.

**ME 0203 Kinematics and Dynamics****3 Credits**

**Prerequisites:** ME 0201, MA 0245.

This course presents kinematics principles applied to particles and rigid body elements. Topics include analysis of forces and motion using Newton's second and third laws of motion; theory of kinetics of particles and rigid body elements under rectilinear and curvilinear motion, vector methods; principles of work, energy, and power; and momentum and impact.

**ME 0203P Kinematics and Dynamics PLG****0 Credits****ME 0206L Mechanics Lab****1 Credit**

**Fee:** \$80 Engineering Lab Fee

**Corequisite:** ME 0201.

Students do mechanics experiments for two- and three-dimensional structures under static loading conditions. Concepts include vectors, equilibrium, moments, truss analysis, forces, and center of gravity of objects. This course includes topics in engineering materials, such as hardness, toughness, microscopic analysis, machinability and thermal properties. The course introduces strain gages, instrumentation and statistical data analysis. Students perform experiments and prepare laboratory reports.

**ME 0207 Materials Science****3 Credits**

**Attributes:** EVME Environmental Studies Major Elective, EVNS

Environmental Studies: Natural Science, EVPE Environmental Studies Elective

**Prerequisites:** CH 0111, CH 0111L.

This course covers chemical and physical properties of metals, polymers, and ceramics. Subjects include atomic structure, crystallography, strengthening mechanisms, microstructure, chemical composition, diffusion, binary phase diagrams, transformation diagrams, corrosion and materials science protection. Importance of the interrelationship between a material's processing, microstructure, and properties is discussed. The lab demo portion examines material science testing and microstructure analyses. Sample preparation and metallographic techniques are also learned.

**ME 0241 Principles of Thermodynamics****3 Credits**

**Prerequisites:** PS 0115, PS 0115L.

This course on macroscopic thermodynamics with applications covers conservation of energy for open and closed systems; equations of state and pure substances; first and second law of thermodynamics, including the concepts of internal energy; and enthalpy and entropy as applied to aero-thermal components. Tables of thermodynamic properties, ideal gases and elements of cycle analysis, and applications of thermodynamic cycles, such as Carnot and Rankine, are discussed.

**ME 0307L Dynamics Systems Lab****1 Credit**

**Fee:** \$80 Engineering Lab Fee

**Corequisites:** ME 0203, ME 0308.

Students perform experiments covering the concepts of kinematics, dynamics, and mechanisms. Concepts included are: Newton's Laws, momentum, mechanical energy, impact, and friction. The course includes concepts in the area of strength of materials, such as: stress, strain, loading, modulus of elasticity, and fatigue. It also covers analysis of beams, photoelastic studies, and statistical data analysis. Students complete written lab reports.

**ME 0308 Strength of Materials****3 Credits**

**Corequisite:** ME 0203.

**Prerequisites:** ME 0201, MA 0245.

This course examines concepts of two-dimensional stress and strain, factors of safety, thermal strain, static indeterminacy, stress concentration, bending including normal and shearing stresses, torsion, direct shear, principal stresses; Mohr's Circle; thin-walled pressure vessels; beam theory including shear and bending moment diagrams; deflection; elastic curves; indeterminate beams; energy methods; the use of superposition; and impact effects and column theory. Lab experiments reinforce these aspects of theory. This course includes a design project.

**ME 0310L Product Manufacturing Lab****1 Credit**

This course is designed to be an introductory course in the Product Manufacturing field. The course provides theoretical concepts as well as the development of the knowledge and skills required in CNC programming, machine setup and operation, 3D printing, laser, manual machining and metrology. The laboratory portion emphasizes practical application of CNC machine tools, 3D printing, and manual machining, which involve set-ups and procedures for operation.

**ME 0311 Machine Design****3 Credits**

**Prerequisite:** ME 0308.

This course applies the fundamentals of mechanical engineering design to analyze, design, and/or select components typically used in the design of complete mechanical systems. The course covers the design process and analysis of stress and deflection; material properties and loading (steady state and variable) as they relate to failure prevention; and the procedures for design and analysis of common machine elements such as columns, cylinders, fasteners and springs. In team reverse-engineering projects, students apply the course topics to real hardware. The course emphasizes computer techniques and responsible design (safety factors and ethics).

**ME 0318 Finite Element Analysis****3 Credits**

**Prerequisites:** EG 0130, MA 0251, ME 0308.

An introduction to concepts in finite element analysis; this course covers one- and two-dimensional element formulation and structural analysis. This finite element analysis is extended to three dimensional problems in dynamic systems and control, design and manufacturing, mechanics and materials, and fluids and thermal systems. This course will provide an overview of the complimentary topic of computational fluid dynamics (CFD). Students solve problems both manually and with the use of modern computer finite element software, ANSYS and FLUENT.

**ME 0319 Applications of Finite Element Analysis****3 Credits****Prerequisite:** ME 0318.

This course examines applications of finite element analysis in modern engineering including structural analysis, fluid flow and heat transfer. It is an introduction to the concepts of dynamics as applied to structure. Finite element formulations covering 1-, 2-, and 3-dimensional elements as well as energy methods are developed. Students develop techniques for application of finite element method in structural design, dynamic system response, fluid and thermal analyses. Application of methodology to fluid flow is presented. Students solve example and design problems manually and using modern finite element analysis software, ANSYS and FLUENT.

**ME 0321 Theory and Applications of Robot Kinematics****3 Credits****Prerequisite:** ME 0203.

Topics in advanced kinematics include introduction to basic concepts and definitions related to kinematics, commonly used links and joints, kinematic analysis of mechanisms, introduction to robotic mechanisms, homogeneous transformations, Euler angles, Denavit-Hartenberg representation of forward kinematics of robots, inverse kinematics solution of robots, degeneracy and dexterity, and differential motion and velocity relations. Industrial application of kinematics will also be covered and the course will include a laboratory or project component.

**ME 0322 Advanced Dynamics****3 Credits****Prerequisite:** ME 0203.

The topics in the area of dynamics include degrees of freedom, generalized coordinates, constraints, physics of failure, flexures, and optmechanics. The course will focus on practical applications of advanced dynamics, including linkages, cams, and kinematic mechanisms, as well as computer applications and project design.

**ME 0323 Thermal Management of Microdevices****3 Credits**

This course addresses the thermal design in electronic assemblies which includes thermal characteristics, heat transfer mechanisms and thermal failure modes. Thermal design of electronic devices enables engineers to prevent heat-related failures, increase the life expectancy of the system, and reduce emitted noise and energy consumption. This course provides the required knowledge of heat transfer for such analysis and various options available for thermal management of electronics. This course also presents advanced methods of removing heat from electronic circuits, including heat pipes, liquid immersion and forced convection.

**ME 0324 Micro and Nano Manufacturing****3 Credits****Prerequisites:** CH 0111, ME 0207, PS 0116.

This course will introduce students to the latest advancements in micro and nano manufacturing. The course will enable students to become familiar with advanced manufacturing techniques in light of the global emphasis on micro and nano manufacturing. Topics to be covered include lithography, mechanical micromachining, laser fabrication, polymers and nanocomposites, and nano imprinting. The important topics of metrology and process control at the micro and nano scale will also be discussed. Students will conduct a class project integrating the different processes for an application in electromechanical or biomedical field. A lab component is also present where students get a hands-on experience with material processing and characterization tools. Open to seniors only.

**ME 0325 Engineering Systems Dynamics****3 Credits****Prerequisites:** MA 0251, ME 0318.

The student will become familiar with the analysis of the dynamic response of structures, structural components to transient loads, and foundation excitation. Course includes single-degree-of-freedom and multiple-degree-of-freedom systems, frequency response concepts, and introduction to modal analysis. Basic concepts of vibration control and control theory will be introduced.

**ME 0327 Fracture Mechanics****3 Credits****Prerequisite:** ME 0308.

This course covers fracture mechanics concepts for design, materials selection, and failure analysis. The fundamental principles of fracture parameters and criteria, stress field at the tip of a crack, fracture toughness, thickness effect, plastic zone concept, and crack growth under cyclic loading and aggressive environment will be presented. Emphasis will be placed on the practical applications of fracture mechanics by incorporation of a failure investigation study where the students utilize the skills developed with the course to root cause a real world failure. Taking a holistic approach each student will have their own case study and learn to incorporate fracture mechanics, material science, mechanics of materials, computer simulation and manufacturing techniques and knowledge into their project.

**ME 0330 Mechanics of Composite Materials****3 Credits****Prerequisite:** ME 0207.

While the use of man-made composites have existed for centuries for practical applications, engineered composite materials are finding increasing use in many high technology applications such as aerospace, electronics, sporting goods, and structural components for high stability systems. This course is designed to provide a comprehensive understanding of classification, processing, properties, selection and failure of polymer, metal and ceramic based composite materials.

**ME 0342 Applications of Thermodynamics****3 Credits****Prerequisite:** ME 0241.

This course applies concepts learned in ME 0241. Topics include mixtures of ideal gases and vapors; psychrometry; combustion analysis of common power generating, refrigeration, and air conditioning cycles; figures of merit including thermal efficiency; continuity equation, basic energy relations for turbomachinery; fundamentals of compressor and turbine design; and application and synthesis of design using thermodynamic principles. This course includes a lab segment.

**ME 0346 Energy Conversion****3 Credits****Prerequisite:** ME 0347.

This course covers the major topics in energy conversion, including fuels used in energy conversion; solar energy; gas turbine engines and applications; internal combustion engines; heat pumps; classic and novel power and refrigeration cycles; system analysis; system economics; and environmental considerations. The course includes computer simulation of power plant performance to optimize energy conversion efficiency. Students will be required to conduct a research on the environmental impacts of the major current energy conversion systems.

<b>ME 0347 Fluid Mechanics</b>	<b>3 Credits</b>	<b>ME 0354 Heat and Mass Transfer</b>	<b>3 Credits</b>
<b>Prerequisite:</b> ME 0241.		<b>Prerequisite:</b> ME 0349.	
Topics in this course include incompressible fluids at rest and in motion; Bernoulli's theorem and the principle of similarity flow through orifices, nozzles, and pipes; flow through open channels; energy relationships as applied to pipe lines, pumps, and turbines; acceleration of fluid masses; losses in fluid flow systems; fluid dynamics; the momentum theorem in turbomachinery; and introduction to compressible fluid flow. This course emphasizes design solutions using computer analysis and synthesis. The course includes a design project of a system that applies the principles of fluid flow.		This course covers the concepts of conduction, convection, and radiation heat transfer as well as mass transfer. Boiling and condensation; design and performance of selected thermal systems (including heat exchangers); and laminar and turbulent flows as related to forced and free convection are all studied. Mathematical modeling of engineering systems using modern analytical and computational solution methods are also covered.	
<b>ME 0348L Thermal and Fluids Lab</b>	<b>1 Credit</b>	<b>ME 0362 Turbomachinery</b>	<b>3 Credits</b>
<b>Fee:</b> \$80 Engineering Lab Fee		<b>Prerequisite:</b> ME 0347.	
<b>Corequisites:</b> ME 0342, ME 0347.		The theoretical basis and the fundamentals of modern turbomachinery for aerospace (helicopter, aircraft) and power generation (marine, industrial) applications are studied. Brayton engine cycle analysis and performance improvement are reviewed. Applications of the principles of fluid mechanics and thermodynamics to the design of turbines and compressors are examined, as well as component analysis and velocity diagram for axial compressors, centrifugal compressors and axial turbines. Discussion of combustion and environmental emissions. This course carries a design/research project	
This laboratory learning experience provides the opportunity to explore various components, such as the compressor, condenser, and evaporator, in a series of experiments using refrigeration equipment. Students investigate lift and drag in a wind tunnel, pressure losses in duct flow, and the Bernoulli principle. Also, students determine the efficiency of a centrifugal pump, plot PV diagrams for the Otto Cycle, and study a Pelton Wheel Hydraulic Turbine. The course emphasizes statistical analysis, test planning, data evaluation, and report writing.		<b>ME 0372 Applications of Theory of Elasticity</b>	<b>3 Credits</b>
<b>ME 0349 Heat Transfer</b>	<b>3 Credits</b>	<b>Prerequisite:</b> ME 0308.	
<b>Prerequisite:</b> ME 0347.		This course covers theory of elasticity (stress, strain, and generalized Hooke's law), strain energy methods (Castigliano's theorem), thin shells of revolution (equilibrium equations, pressure vessels), thin plates (rectangular and circular plates, moment-curvature relations), beams of elastic foundations and buckling.	
This course covers one- and two-dimensional heat conduction, including solutions for finned surfaces and solutions for transient problems; convection heat transfer in laminar and turbulent flows; fundamental radiation concepts; laws of thermal radiation; radiation exchange geometrical factors and network methods; heat exchangers and electrical analogies. The course emphasizes design solutions using computer analysis and synthesis. In the lab, students investigate heat transfer in plane surfaces, enhanced heat transfer in extended surfaces, and heat exchanger effectiveness. This course includes a practical design project of a system that applies the principles of heat transfer.		<b>ME 0382 Independent Study: Advanced Mechanical Project</b>	<b>1-3 Credits</b>
<b>ME 0350L Energy Transfer Lab</b>	<b>1 Credit</b>	<b>Prerequisite:</b> Completion of non-elective mechanical engineering courses and at least one major elective.	
<b>Fee:</b> \$80 Engineering Lab Fee		During this design course emphasizing individual creativity, students (working with a faculty mentor) develop project objectives and performance specifications. At review meetings, students present progress on the project including analytic and experimental results to date. A final report and presentation demonstrates the accomplishments and significant conclusions. Faculty involvement creates a realistic engineering development environment. Students may take this course as independent study once the prerequisites have been met. Enrollment by departmental approval only.	
<b>Corequisites:</b> ME 0325, ME 0349.		<b>ME 0400 Feedback and Control Systems</b>	<b>3 Credits</b>
A laboratory experience for engineering students utilizing hands-on experiments to explore energy transfer methods related to transmitted forces in vibrating systems, as well as thermal transfer gradients in mechanical, electrical, and electronic systems. Students use simulation and modeling software for many experiments, including conduction and convection heat transfer processes. The course emphasizes statistical analysis, instrumentation, and report writing.		This course emphasizes analysis and synthesis of closed loop control systems using both classical and state-space approaches with an emphasis on electro-mechanical systems. The mathematical requirements include the Laplace transform methods of solving differential equations, matrix algebra and basic complex variables. The discussion of classical control system design includes the modeling of dynamic systems, block diagram representation, time and frequency domain methods, transient and steady state response, stability criteria, controller action [Proportional (P), proportional and integral (PI), Proportional, integral and derivative (PID) and pseudo-derivatives feedback], root locus methods, the methods of Nyquist and Bode and dynamics compensation techniques. The discussion of state-space methods includes formulation and solution (analytical and computer-based) of the state equations and pole-placement design. The course integrates the use of computer-aided analysis and design tools (MATLAB) so as to ensure relevance to the design of real world controlled electro-mechanical systems using case studies and applications to electrical and mechanical systems. Includes lab (hardware based) exercises.	
<b>ME 0353 Computational Fluid Dynamics</b>	<b>3 Credits</b>		
<b>Prerequisites:</b> EG 0145, ME 0347.			
Introduction to computational methods used for the solution of advanced fluid dynamics problems. Emphasis on concepts in finite difference methods as applied to various ordinary and partial differential model equations in fluid mechanics, fundamentals of spatial discretization, numerical integration, and numerical linear algebra. A focus on the engineering and scientific computing environment. Other topics may include waves, advanced numerical methods (like spectral, finite element, finite volume), non-uniform grids, turbulence modeling, and methods complex boundary conditions.			

**ME 0405 Design of Mechatronics Systems****3 Credits**

This course covers development of mechatronics theory and applications to systems dependent upon the integration of mechanical, electrical and computer engineering. Students assemble hardware components to create a product design that fulfills a specified task in a mechatronics system. Students develop design skills in mechanisms, electrical devices, and software to create, test, and verify system function. Sessions include lab projects. Students will be challenged to develop a publication-worthy white paper as a final deliverable along with their final project.

**ME 0410 Vibration Analysis****3 Credits**

Fundamental laws of mechanics. Free and forced vibration of discrete single and multi-degree- of-freedom systems. Periodic and harmonic motion, viscous damping, and measures of energy dissipation. Modal analysis for linear systems. Computational methods in vibration analysis. Natural frequencies and mode shapes. Analytical dynamics and Lagrange equation. Longitudinal, torsional, and flexural vibration of continuous elastic systems, (strings, rods, beams). Energy methods. Approximate methods for distributed parameter systems. Dynamic response by direct numerical integration methods. ANSYS modeling will be covered. Students are required to conduct an independent research on one of the new and emerging energy sources, write a research report and make a class presentation on their research.

**ME 0410L Product Manufacturing Lab****1 Credit**

This course is designed to be an introductory course in the Product Manufacturing field. The course provides theoretical concepts as well as the development of the knowledge and skills required in CNC programming, machine setup and operation, 3D printing, laser, manual machining and metrology. The laboratory portion emphasizes practical application of CNC machine tools, 3D printing, and manual machining, which involve set-ups and procedures for operation.

**ME 0411 Theory and Applications of Robot Kinematics****3 Credits**

Topics in advanced kinematics include introduction to basic concepts and definitions related to kinematics, commonly used links and joints, kinematic analysis of mechanisms, introduction to robotic mechanisms, homogeneous transformations, Euler angles, Denavit-Hartenberg representation of forward kinematics of robots, inverse kinematics solution of robots, degeneracy and dexterity, and differential motion and velocity relations. Industrial application of kinematics will also be covered and the course will include a laboratory or project component.

**ME 0412 Advanced Dynamics****3 Credits**

The topics in the area of dynamics include degrees of freedom, generalized coordinates, constraints, physics of failure, flexures, and optomechanics. The course will focus on practical applications of advanced dynamics, including linkages, cams, and kinematics mechanisms, as well as computer applications and project design. Students will be challenged to develop a publication-worthy white paper as a final deliverable along with their final project.

**ME 0415 Engineering Applications of Numerical Methods****3 Credits**

This course provides students with the theoretical basis to proceed in future studies. Topics include root-finding, interpolation, linear algebraic systems, numerical integration, numerical solution of ordinary and partial differential equations, modeling, simulation, initial boundary value problems, and two point boundary value problems.

**ME 0423 Thermal Management of Microdevices****3 Credits**

This course addresses the thermal design in electronic assemblies which includes thermal characteristics, heat transfer mechanisms and thermal failure modes. Thermal design of electronic devices enables engineers to prevent heat-related failures, increase the life expectancy of the system, and reduce emitted noise and energy consumption. This course provides the required knowledge of heat transfer for such analysis and various options available for thermal management of electronics. This course also presents advanced methods of removing heat from electronic circuits, including heat pipes, liquid immersion and forced convection.

**ME 0424 Micro and Nano Manufacturing****3 Credits**

This course will introduce students to the latest advancements in micro and nano manufacturing. The course will enable students to become familiar with advanced manufacturing techniques in light of the global emphasis on micro and nano manufacturing. Topics to be covered include lithography, mechanical micromachining, laser fabrication, polymers and nanocomposites, and nano imprinting. The important topics of metrology and process control at the micro and nano scale will also be discussed. Students will conduct a class project integrating the different processes for an application in electromechanical or biomedical field. A lab component is also present where students get a hands-on experience with material processing and characterization tools.

**ME 0427 Applications of Fracture Mechanics in Engineering****3 Credits**

This course covers fracture mechanics concepts for design, materials selection, and failure analysis. The fundamental principles of fracture parameters and criteria, stress field at the tip of a crack, fracture toughness, thickness effect, plastic zone concept, and crack growth under cyclic loading and aggressive environment will be presented. Emphasis will be placed on the practical applications of fracture mechanics by incorporation of design problems and laboratory demonstrations in the course. Emphasis will be placed on the practical applications of fracture mechanics by incorporation of a failure investigation study where the students utilize the skills developed with the course to root cause a real world failure. Taking a holistic approach each student will have their own case study and learn to incorporate fracture mechanics, material science, mechanics of materials, computer simulation and manufacturing techniques and knowledge into their project. Students select a related research topic, identify a technical paper to review and give a class presentation.

**ME 0428 Computational Fluid Dynamics****3 Credits**

Introduction to computational methods used for the solutions of advanced fluid dynamics problems. Emphasis on concepts in finite difference methods as applied to various ordinary and partial differential model. Equations in fluid mechanics, fundamentals of spatial discretization, numerical integration, and numerical linear algebra. A focus on the engineering and scientific computing environment. Other topics may include waves, advanced numerical methods (like spectral, finite element, finite volume), non-uniform grids, turbulence modeling, and methods complex boundary conditions. Students select a related research topic, identify a technical paper to review and give a class presentation.

**ME 0444 Mechanics of Composite Materials****3 Credits**

While the use of man-made composites have existed for centuries for practical applications, engineered composite materials are finding increasing use in many high technology applications such as aerospace, electronics, sporting goods, and structural components for high stability systems. This course is designed to provide a comprehensive understanding of classification, processing, properties, selection and failure of polymer, metal and ceramic based composite materials. Students select a related research topic, identify a technical paper to review and give a class presentation.

**ME 0451 Energy Conversion****3 Credits**

This course covers selected topics in energy conversion, including fuels used in energy conversion, solar energy, gas turbine engines and applications, internal combustion engines, battery power, heat pumps, classic and novel power and refrigeration cycles, system analysis, system economics, and environmental considerations. The course includes computer simulation of power plant performance to optimize energy conversion efficiency. A research report and class presentation of an independent research on one of the emerging sources of energy is an essential part of this course.

**ME 0452 Heat and Mass Transfer****3 Credits**

This course covers the basic concepts of conduction, convection, and radiation heat transfer. Boiling and condensation, design and performance of selected thermal systems (including heat exchangers), and laminar and turbulent flows as related to forced and free convection are all studied. Mathematical modeling of engineering systems using modern analytical and computational solution methods are also covered. Students are required to conduct an independent research on one of the new and emerging energy sources, write a research report and make a class presentation on their research.

**ME 0453 Turbomachinery****3 Credits**

Theory and fundamentals of modern turbomachinery for aerospace (helicopter, aircraft) and power generation (marine, industrial) applications. Brayton engine cycle analysis and performance improvement are examined. Applications of the principles of fluid mechanics and thermodynamics to the design of turbines and compressors are discussed; analysis and velocity diagram for axial compressors, centrifugal compressors and axial turbines. Discussion of combustion and environmental emissions is included. Students are required to conduct an independent research on one of the new and emerging energy sources, write a research report and make a class presentation on their research.

**ME 0470 Applications of Finite Element Analysis****3 Credits**

This course examines applications of finite element analysis in modern engineering including structural analysis, fluid flow, heat transfer, and dynamics. Finite element formulations covering two and three dimensional elements as well as energy methods are developed. Students develop techniques for application of finite element method in structural design, dynamic system response, fluid and thermal analyses. Application of methodology to fluid flow is presented. Students solve example and design problems manually and using modern finite-element analysis software, ANSYS and FLUENT. Students are required to conduct an independent research on one of the new and emerging energy sources, write a research report and make a class presentation on their research.

**ME 0472 Applications of Theory of Elasticity****3 Credits**

This course covers theory of elasticity (stress, strain, and generalized Hooke's law), strain energy methods (Castigliano's theorem), thin shells of revolution (equilibrium equations, pressure vessels), thin plates (rectangular and circular plates, moment-curvature relations), beams of elastic foundations and buckling. Students are required to conduct an independent research on one of the new and emerging energy sources, write a research report and make a class presentation on their research.

**ME 0495 Independent Study****3 Credits**

A well-planned program of individual study under the supervision of the faculty member.

**ME 0550 Thesis I****3 Credits**

The master's thesis is intended to be a test of the student's ability to formulate a problem, solve it, and communicate the results. The thesis is supervised on an individual basis by a faculty member. A thesis involves the ability to gather information, examine it critically, think creatively, organize effectively, and write convincingly; it is a project that permits the student to demonstrate skills that are basic to both academic and work in industry. The student must also submit a paper for possible inclusion in a refereed journal appropriate to the topic.

**ME 0551 Thesis II****3 Credits**

The master's thesis is intended to be a test of the student's ability to formulate a problem, solve it, and communicate the results. The thesis is supervised on an individual basis by a faculty member. A thesis involves the ability to gather information, examine it critically, think creatively, organize effectively, and write convincingly; it is a project that permits the student to demonstrate skills that are basic to both academic and work in industry. The student must also submit a paper for possible inclusion in a refereed journal appropriate to the topic.

**Music (MU)****MU 0060 Private Lessons: Bass****1 Credit**

**Fee:** \$500 Music Lesson Fee

**MU 0061 Private Lessons: Bass****2 Credits**

**Fee:** \$575 Music Lesson Fee

**MU 0062 Private Lessons: Bassoon****1 Credit**

**Fee:** \$500 Music Lesson Fee

**MU 0063 Private Lessons: Bassoon****2 Credits**

**Fee:** \$575 Music Lesson Fee

**MU 0064 Private Lessons: Cello****1 Credit**

**Fee:** \$500 Music Lesson Fee

**MU 0065 Private Lessons: Cello****2 Credits**

**Fee:** \$575 Music Lesson Fee

**MU 0066 Private Lessons: Clarinet****1 Credit**

**Fee:** \$500 Music Lesson Fee

**MU 0067 Private Lessons: Clarinet****2 Credits**

**Fee:** \$575 Music Lesson Fee

**MU 0068 Private Lessons: Flute****1 Credit**

**Fee:** \$500 Music Lesson Fee

**MU 0069 Private Lessons: Flute****2 Credits**

**Fee:** \$575 Music Lesson Fee

**MU 0070 Private Lessons: Guitar****1 Credit**

**Fee:** \$500 Music Lesson Fee

**MU 0071 Private Lessons: Guitar****2 Credits**

**Fee:** \$575 Music Lesson Fee

<b>MU 0072 Private Lessons: Harp</b> Fee: \$500 Music Lesson Fee	<b>1 Credit</b>	<b>MU 0101 The History of Jazz</b> <span style="float: right;">3 Credits</span>
<b>MU 0073 Private Lessons: Harp</b> Fee: \$575 Music Lesson Fee	<b>2 Credits</b>	<b>Attributes:</b> ASGW American Studies: Gateway, ASVP American Studies: Visual and Performing Arts, BSAH Black Studies: Arts and Humanities, BSFC Black Studies Focus Course, EDCG Educational Studies Cognate, EDDV Educational Studies Diversity, UDIV U.S. Diversity, VPCH Visual and Performing Arts Core: History Course
<b>MU 0074 Private Lessons: Oboe</b> Fee: \$500 Music Lesson Fee	<b>1 Credit</b>	This course traces the development of American jazz from its origins in African-American musical traditions. Students examine the roots of jazz in ragtime, blues, work songs, and march music and study the development of different jazz styles such as Dixieland in the '20s, swing in the '30s, bop in the '40s, and continuing to the present. The course emphasizes the connection between historical periods and the music of jazz: America's original art music.
<b>MU 0075 Private Lessons: Oboe</b> Fee: \$575 Music Lesson Fee	<b>2 Credits</b>	
<b>MU 0078 Private Lessons: Percussion</b> Fee: \$500 Music Lesson Fee	<b>1 Credit</b>	<b>MU 0102 History and Development of Rock</b> <span style="float: right;">3 Credits</span>
<b>MU 0079 Private Lessons: Percussion</b> Fee: \$575 Music Lesson Fee	<b>2 Credits</b>	<b>Attributes:</b> ASGW American Studies: Gateway, ASVP American Studies: Visual and Performing Arts, UDIV U.S. Diversity, VPCH Visual and Performing Arts Core: History Course
<b>MU 0080 Private Lessons: Piano</b> Fee: \$500 Music Lesson Fee	<b>1 Credit</b>	This course surveys the musical and social trends that resulted in the emergence of rock and roll as an important musical and cultural force in America. The course traces the roots of rock, blues, and country styles, showing how they merged with popular music. Students examine periods from the 1950s to the present, along with Elvis Presley, Chuck Berry, Little Richard, the Beatles, the British invasion, folk music, Bob Dylan, jazz and art rock, Jimi Hendrix, the west coast movement, and the music industry. Students learn to understand, discuss, and differentiate between stylistic periods and their historical relevance to American culture.
<b>MU 0081 Private Lessons: Piano</b> Fee: \$575 Music Lesson Fee	<b>2 Credits</b>	<b>MU 0103 History of Music: 400-1700</b> <span style="float: right;">3 Credits</span>
<b>MU 0082 Private Lessons: Popular Piano</b> Fee: \$500 Music Lesson Fee	<b>1 Credit</b>	<b>Attributes:</b> VPCH Visual and Performing Arts Core: History Course
<b>MU 0083 Private Lessons: Popular Piano</b> Fee: \$575 Music Lesson Fee	<b>2 Credits</b>	From the humble beginnings of prayer set to chant, through the golden age of polyphony, to the masters of the baroque, this course surveys the origin of western art music. Students learn the basic elements of music and chart the evolution of these elements through the centuries. Students also learn about the cultural and intellectual environment that gave birth to different music genres and styles.
<b>MU 0084 Private Lessons: Saxophone</b> Fee: \$500 Music Lesson Fee	<b>1 Credit</b>	<b>MU 0104 History of Music: 1700-1964</b> <span style="float: right;">3 Credits</span>
<b>MU 0085 Private Lessons: Saxophone</b> Fee: \$575 Music Lesson Fee	<b>2 Credits</b>	<b>Attributes:</b> MUEM European Music, VPCH Visual and Performing Arts Core: History Course
<b>MU 0086 Private Lessons: Trombone</b> Fee: \$500 Music Lesson Fee	<b>1 Credit</b>	This course explores the ways in which composers manipulated musical language to meet the growing demands of the middle class. After learning the basic elements of music, students explore the world of the Enlightenment and Haydn, Mozart, and Beethoven. In the romantic period, the course explores the interaction of all the arts and the influence of politics and economics on compositional style. With the dawn of the 20th century, the course explores what "modern" means, learns about attempts to expand and replace musical language, and studies the impact of American culture on music.
<b>MU 0087 Private Lessons: Trombone</b> Fee: \$575 Music Lesson Fee	<b>2 Credits</b>	
<b>MU 0088 Private Lessons: Violin</b> Fee: \$500 Music Lesson Fee	<b>1 Credit</b>	
<b>MU 0089 Private Lessons: Violin</b> Fee: \$575 Music Lesson Fee	<b>2 Credits</b>	
<b>MU 0090 Private Lessons: Viola</b> Fee: \$500 Music Lesson Fee	<b>1 Credit</b>	
<b>MU 0091 Private Lessons: Viola</b> Fee: \$575 Music Lesson Fee	<b>2 Credits</b>	
<b>MU 0092 Private Lessons: Voice</b> Fee: \$500 Music Lesson Fee	<b>1 Credit</b>	
<b>MU 0093 Private Lessons: Voice</b> Fee: \$575 Music Lesson Fee	<b>2 Credits</b>	
<b>MU 0094 Private Lessons: Trumpet</b> Fee: \$500 Music Lesson Fee	<b>1 Credit</b>	
<b>MU 0095 Private Lessons: Trumpet</b> Fee: \$575 Music Lesson Fee	<b>2 Credits</b>	
<b>MU 0096 Private Lessons: Beginning Piano</b> Fee: \$500 Music Lesson Fee	<b>1 Credit</b>	
<b>MU 0097 Private Lessons: Beginning Piano</b> Fee: \$575 Music Lesson Fee	<b>2 Credits</b>	
<b>MU 0098 Private Lessons: Jazz/Pop Piano</b> Fee: \$500 Music Lesson Fee	<b>1 Credit</b>	
<b>MU 0099 Private Lessons: Jazz/Pop Piano</b> Fee: \$575 Music Lesson Fee	<b>2 Credits</b>	

**MU 0112 Music of Black Americans****3 Credits**

**Attributes:** ASGW American Studies: Gateway, ASVP American Studies: Visual and Performing Arts, BSAH Black Studies: Arts and Humanities, BSFC Black Studies Focus Course, EDCG Educational Studies Cognate, EDDV Educational Studies Diversity, UDIV U.S. Diversity, VPCH Visual and Performing Arts Core: History Course

This musical and historical survey of African-American music and its important contributions to American culture examines African heritage, slave songs, and the colonial era, followed by the role of African-Americans in the music and culture of the Revolutionary and Civil War periods. Students examine the evolution of spirituals, minstrel songs, and ragtime as they relate to dance forms; the role of African-Americans as performers and composers in classical music and music of the theatre; and the blues as it evolves into jazz, soul, reggae, funk, disco, and rap. This course takes a look at racism and issues of gender in America, and how musicians of diverse backgrounds have collaborated and contributed to the evolution of American music despite prejudice and adversity.

**MU 0120 The History of American Song****3 Credits**

**Attributes:** ASGW American Studies: Gateway, ASVP American Studies: Visual and Performing Arts, UDIV U.S. Diversity, VPCH Visual and Performing Arts Core: History Course

This course examines the history of our most popular form of American music - the song. It explores the origins of song, the impact of immigrants, war, women, and political agendas on the development of this genre, as well as popular American songwriters, singers, and styles. Through critical analysis, we will see the patterns that shaped the music of today.

**MU 0122 World Music History and Ensemble****3 Credits**

**Attributes:** BSAH Black Studies: Arts and Humanities, BSCC Black Studies Component Course, EDCG Educational Studies Cognate, EDDV Educational Studies Diversity, LCEL LACS Minor: Elective, VPCH Visual and Performing Arts Core: History Course, WDIV World Diversity

The course includes a survey and hands-on instrumental experimentation with world music including African, Brazilian, African-American, Native American, Latin American, Indian, and South Asian styles. Students attend a formal lecture and a practice or performance session each week. During the latter session, students learn to play (primarily African) percussion instruments, coming to view them as the first building blocks of much larger units of ethnic, folk, traditional, or popular ensembles. The course raises student awareness of corresponding songs and traditions; links history, tradition, music, and culture; and introduces students to the contribution of a wide range of cultures to the music world and to the widespread belief that music is a universal language. Students perform as a class or an ensemble on set show-and-tell occasions that may be open to invited guests and/or the University community. No previous musical experience is required.

**MU 0124 Bach and Beethoven****3 Credits**

**Attributes:** GMEL German Major or Minor Course, GMEN German Course Taught in English, VPCH Visual and Performing Arts Core: History Course This course examines the lives and music of two masters. The first half of the course explores the great secular and religious music of Johann Sebastian Bach, the last great exponent of baroque style. The second half of the course investigates the life and works of Ludwig von Beethoven, the composer who, more than any other, represents the struggle for artistic truth.

**MU 0126 History of Choral Music****3 Credits**

**Attributes:** VPCH Visual and Performing Arts Core: History Course From Palestrina's masses to Verdi's Requiem, this course explores the history of music through choral music. The composers themselves often considered these masterpieces to be the culmination of their compositional development and work. A basic ability to read music is helpful.

**MU 0132 Critical Issues in American Popular Music: Blues to Hip Hop****3 Credits**

**Attributes:** ASVP American Studies: Visual and Performing Arts, BSAH Black Studies: Arts and Humanities, BSCC Black Studies Component Course, UDIV U.S. Diversity, VPCH Visual and Performing Arts Core: History Course

This course provides an in-depth look at the important musical, social, and racial issues in American popular music, from the media exploitation of the blues in the 1920s through current issues in hip hop. Subject areas will include blues and its origins, jazz and modernism, the obstacles of race in music, the death of rhythm and blues, rock's evolution in the '50s, rap and hip hop culture, and issues in both postmodernism and perverse as seen by many music and art critics.

**MU 0150 Music Theory and Composition I****3 Credits**

**Attributes:** VPC2 Visual and Performing Arts Core: Applied Course

This course introduces students to the basic concepts of music theory and beginning compositional skills. Starting with the notation of pitch and rhythm, the course investigates the major/minor key system, intervals, chord construction, melody writing, and rudimentary harmonization. No background in music is expected.

**MU 0155 Popular Music Theory and Composition****3 Credits**

**Attributes:** VPC2 Visual and Performing Arts Core: Applied Course

This course, designed for majors and minors in jazz performance, gives students a working knowledge of jazz and pop harmony. Students attain keyboard proficiency through an emphasis on ear-training, voicings, tritone substitutions, and improvisation theory; this proficiency can be used on other instruments. Students learn all upper-structure chords in all keys as well as ways to improvise on various chord structures. Students should be able to play through lead sheet material with reasonable proficiency using jazz voicings and voice-leading techniques. Basic knowledge of the keyboard is recommended, but the course is open to all instrumentalists and vocalists. Enrollment by permission of the instructor only.

**MU 0156 Introduction to Music Technology: History and Practice****3 Credits**

**Attributes:** VPC2 Visual and Performing Arts Core: Applied Course

This course provides students with an introduction to the use of musical instrument digital interface and its various formats. Participants study principles of MIDI, the use of computers in music, and music software as it applies to composition, arranging, sequencing, and music notation, examining how these formats enhance the performance of music and music production. Students learn the technology used in pop music, soundtracks, and commercial music. This course requires a basic knowledge of music and is open to students with some musical background.

**MU 0157 Introduction to the Music Industry****3 Credits**

**Attributes:** VPC2 Visual and Performing Arts Core: Applied Course

This course introduces students to the various aspects of the music industry. Students discuss the history and process behind the creation, manufacture, and distribution of prerecorded music. The course covers the earliest record companies, changes in the technology, and the growing awareness and sophistication of the consumer and the artists, as well as the function of managers, attorneys, musicians, and agents in the music industry.

**MU 0200 Special Topics (Shell)****3 Credits****Prerequisite:** One introductory or 100-level music class.

Students will undertake an in-depth study of a specific problem, period, composer, performer, or style of performing, creating, or responding to music. The course will be conducted by a leading scholar/practitioner in the field. The course may be repeated with permission of the program director.

**MU 0200D Special Topics: Audio Post Production: Film, Television, and Radio****3 Credits****Attributes:** VPC2 Visual and Performing Arts Core: Applied Course

The focus of this course is an artistic and technical introduction to Audio Post-Production: the industry, the tools, and the processes that produce high-quality audio mixes for radio and visuals for broadcast, cinema, and internet-based media. The course will teach the technical processes to allow students to use the software and hardware of audio production, but also to provide important background information on the fundamentals of sound and the technology they are utilizing. This includes intensive analysis of these fundamentals as they apply to the industry, the historical and scientific context of sound, and the critical listening skills needed to engage in software use.

**MU 0201 Hip-Hop and Its Antecedants****3 Credits****Attributes:** BSFC Black Studies Focus Course, MUAM American Music, MUHI Music History, UDIV U.S. Diversity, VPCH Visual and Performing Arts Core: History Course

This class explores the musical, cultural, political and aesthetic foundations of hip-hop. We will trace the corporeal, visual, spoken word, literary and musical antecedents to and manifestations of hip-hop in American cultural. Students will investigate specific black cultural practices that have given rise to its various idioms. Students create material culture related to each thematic section of the course. Scheduled work in performance studio helps students understand how hip-hop is created and assessed. We will analyze the effects of corporate America and examine the images and ideas presented by an industry driven by profit. Are we really in a post-racial society? How does hip-hop help us understand race, class, gender, power, and oppression? Artists studied will not be those with the highest number of albums sold, but those with significant musical or lyrical content and impact on hip-hop as a whole.

**MU 0202 Digital Audio Workstation****3 Credits****Prerequisites:** FTM 0011, FTM 0130; or MU 0150 or MU 0156.

This course will provide the student with an in-depth knowledge of the practical application of the Digital Audio Workstation (DAW). This course is primarily designed for students interested in audio editing as it applies to producing recordings, creating sound effects, and soundtrack design for film/TV/radio. Creating samples, recording techniques, waveform manipulation, mixing, and the role of the Digital Audio Workstation in the overall process of sound design will be explored. Students will be proficient at using Logic Pro audio software to manipulate MIDI and audio. Students will learn how to record live sound effects from the environment and manipulate the recordings to create Foley sound effects, and apply them to a film segment. Students will learn to mix and master a segment of multi-track audio.

**MU 0215 American Musical Theatre: History and Practice****3 Credits****Attributes:** UDIV U.S. Diversity, VPCH Visual and Performing Arts Core: History Course**Prerequisite:** One Music or Theatre course.

Musical theatre is a complex genre that has developed in tandem with the developing American nation. It is a serious art form that, in its finest iterations, represents total works of art unique in and of themselves. This course expands students' knowledge of the range and diversity of the genre as codified in the middle 20th century by Rodgers and Hammerstein and their imitators. Embedded in great musical theatre pieces is the essence of what it means to be an American living in the United States at a particular time in history.

**MU 0242 Music of the Classical Era****3 Credits****Attributes:** VPCH Visual and Performing Arts Core: History Course

During the classical era (about 1750 to 1830), music shifted from an aristocratic concern to the favorite popular art of the middle class. The course examines the lives and music of the three most important composers of this period: Haydn, Mozart, and Beethoven.

**MU 0243 19th Century Romanticism in Music****3 Credits****Attributes:** ISIF Italian Studies: Italy-Focused, ITEN Italian Course Taught

in English, VPCH Visual and Performing Arts Core: History Course This comprehensive survey of 19th-century romanticism in music considers the music of Beethoven, Chopin, Verdi, and Wagner, among others. The music of the romantic era contains some of the richest masterpieces in music history. The course considers the relationship between music and the other arts.

**MU 0244 Music of the 20th Century****3 Credits****Attributes:** VPCH Visual and Performing Arts Core: History Course

This introduction to the mainstreams of music of our time begins with Debussy, Ravel, and the French moderns. After investigating the music of Stravinsky, Bartók, and other European composers, the course concludes with such modern trends as electronic music, film music, jazz, and popular music.

**MU 0245 Survey of Film Music: Hearing the Movies****3 Credits****Attributes:** VPCH Visual and Performing Arts Core: History Course**Prerequisite:** FTM 0010 or MU 0103 or MU 0104.

This course provides an overview of film music from 1900 to today. Students investigate the defining characteristics of the major historical periods of film music; explore the social and historical events that shaped the industry; learn to actively listen to a score; and discuss salient features of a given score. The object in this course is to develop skills in analyzing the sound track, music's role in the sound track, and the relation of sound track and image track on small-scale and large-scale (narrative) levels. The course develops critical listening and viewing skills as well as a film-music historical survey.

**MU 0250 Music Theory and Composition II****3 Credits****Attributes:** VPC2 Visual and Performing Arts Core: Applied Course**Prerequisite:** MU 0150.

In this continuation of MU 0150, students build a theoretical and compositional foundation by studying 7th chords, part-writing, harmonic progressions, and chromatic harmony. In addition, students compose original melodies and learn how to harmonize them, and undertake simple analysis projects to further understand how music is put together.

**MU 0255 Instrumental Ensembles****1 Credit**

**Prerequisite:** Orchestra or symphonic band performance experience. This ensemble helps instrumental musicians develop their skills further through public concert performances. Students learn ensemble performance ethics and stylistic interpretation, as well as performing pieces from a wide variety of genres and time periods. This course may be taken repeatedly.

**MU 0256 Jazz Ensemble****1 Credit**

**Prerequisites:** Instrumental or vocal performance experience; selection through audition.

Jazz Ensemble is open to musicians who wish to develop their skills in jazz performance. Students rehearse and receive instruction in performing and improvising in different styles of jazz, from swing to fusion. This course may be taken repeatedly.

**MU 0300 Independent Study****1-3 Credits**

**Attributes:** MUHI Music History, VPCH Visual and Performing Arts Core: History Course

By arrangement with music faculty, students work independently on special topics within the field of music. Open to music majors and minors only. Enrollment by permission only.

**MU 0301 Independent Study in Music Theory****1-3 Credits**

**Attributes:** MUAP Applied Music, VPC2 Visual and Performing Arts Core: Applied Course

By arrangement with music faculty, students continue the work of MU 0250 with an advanced study of music theory and composition. This course may be taken more than once. Open to music majors and minors only. Enrollment by permission only.

**MU 0305 Internship****1-3 Credits**

**Attributes:** VPC2 Visual and Performing Arts Core: Applied Course

Internships are available in a number of organizations. Students receive semester credit in exchange for working a minimum of 10 hours per week. Students may count no more than six credits towards a major, and no more than towards a minor. Open to music majors and minors only. Enrollment by permission only.

**MU 0306 Performing Arts Administration Principles and****Practices****3 Credits**

**Attributes:** VPC2 Visual and Performing Arts Core: Applied Course

**Prerequisites:** Two courses in music or theatre.

This course explores the fundamental principles associated with not-for-profit performing arts organizations. This course is for all arts students, as the study of arts administration core principles sets a foundation of essential knowledge vital for employment within a non-profit arts organization. Such training also is for practicing artists and those with for-profit intentions. Students will come away with knowledge and skills, as well as a strong self-awareness of their leadership and management capacities.

**MU 0310 Senior Capstone Project I****3 Credits**

**Attributes:** MUHI Music History, VPCH Visual and Performing Arts Core:

History Course

The capstone project provides opportunities for majors to work at a very high level, reflecting their expertise and ongoing research. Enrollment by permission only.

**MU 0311 Senior Capstone Project II****3 Credits**

**Attributes:** MUAP Applied Music, VPC2 Visual and Performing Arts Core:

Applied Course

The capstone project provides opportunities for majors to work at a very high level, reflecting their expertise and ongoing research. Enrollment by permission only.

## Nursing (NS)

**NS 0110 Introduction to Professional Nursing****3 Credits**

This course serves as a foundation to the development of the nurse as a professional person. Central to this is the awareness and acceptance of self. The process of clinical reasoning as an approach to the planning and delivery of nursing care to individuals, families, groups and communities is introduced. Discussion of nursing's history and accomplishments serves as the cornerstone for professional behaviors, including: scholarship, communication, collaboration, personal responsibility, accountability, integration of evidence based practice and peer- and self-evaluation. 42 theory hours.

**NS 0112 Healthcare Delivery Systems****3 Credits**

**Attributes:** EDCG Educational Studies Cognate, EDDV Educational Studies Diversity, HSTE Health Studies: Traditions, Delivery, and Ethics

The health care delivery system is explored from a historical, economic, political, and health information technology perspective. Emphasis is given to social, ethical, and legal aspects of the current system that remain unresolved, such as access to care, health disparities, and equity. The history and progression of healthcare reform and its influence on our current healthcare system performance will be analyzed. Global health issues and their impact on the delivery of health care services are discussed, along with consumer use of complementary and alternative therapies. This course is designed to give an inter-professional perspective to students interested in health care from any field of study. 42 theory hours.

**NS 0250 Dimensions of Professional Nursing****3 Credits**

**Attributes:** UDIV U.S. Diversity

**Prerequisites:** Connecticut RN license or academic transcript and approval of advisor.

This course is designed to facilitate career advancement of the registered nurse to the baccalaureate level. This is the first course in the RN/BSN completion program. Consideration of values, culture, philosophy and personal goals are examined as part of the student's professional development. Communication, clinical reasoning and conflict resolution techniques will be utilized to foster positive inter-professional teams. Students will demonstrate an evidence based approach to analyze current healthcare issues including social justice and diversity in professional practice. 42 theory hours.

**NS 0252 Health Assessment for Registered Nurses****3 Credits**

**Prerequisite:** Connecticut RN license.

This course enhances knowledge and skills required to perform health assessments for patients throughout the lifespan. Health assessment focuses not only on physiological components, but also on the more holistic cultural, spiritual, developmental, nutritional, genetic, and mental status assessments. Clinical reasoning, communication and documentation using electronic medical records are also essential components of this course. Students expand their skills in interviewing while learning how to perform health histories, and complete physical examinations through course lectures, discussions, simulations, and supervised and individual practice in classroom and laboratory modules. 28 theory, 28 lab hours.

**NS 0270 Health Assessment****Prerequisites:** BI 0107, BI 0108, CH 0084, NS 0110.

This course introduces students to the knowledge and skills required to perform health assessments for patients throughout the lifespan. Health assessment focuses not only on physiological components, but also on the more holistic cultural, spiritual, developmental, nutritional, genetic, and mental status assessments. Clinical reasoning, communication and documentation using electronic medical records are also essential components of this course. Students expand their skills in interviewing while learning how to perform health histories, and complete physical examinations through course lectures, discussions, simulations, and supervised and individual practice in classroom and laboratory modules. 28 theory hours, 56 lab hours.

**NS 0270L Health Assessment Lab****0 Credits****NS 0272 Geriatric Nursing****4 Credits****Prerequisites:** BI 0151\*, NS 0110, NS 0112, NS 0270\*, PY 0111\*.

This course focuses on evidence-based nursing care of older adults living in long-term care settings. Normal physiological changes of aging and related assessment skills will be incorporated and evaluated using standardized assessment tools. Management of common geriatric care problems will be emphasized. Particular focus will be placed on the ethical and spiritual concerns of vulnerable older adult populations. Students will reflect upon how the nursing role merges with life goals, philosophy and meaning to develop professional behaviors consistent with these aspects of life. 42 theory hours, 42 clinical hours. (\*indicates concurrency allowed)

**NS 0272C Geriatric Nursing Clinical****0 Credits****NS 0301 Health and Wellness****3 Credits****Prerequisites:** NS 0270, NS 0272\*.

This course explores factors that influence health and wellness throughout the lifespan. Epidemiology and evidence based practice provide a framework for the assessment of risk factors. How people make health-related decisions, what risks threaten their health, and reasons for adopting particular lifestyles are examined. Key elements considered essential to providing culturally competent care are reviewed, in addition to increasing awareness about health and healthcare disparities. Social determinants of health, communication, and other wellness concepts are explored. 42 theory hours. (\*indicates concurrency allowed)

**NS 0301C Health and Wellness Clinical****0 Credits****NS 0303 Basic Pathophysiology and Pharmacology****3 Credits****Prerequisites:** BI 0107, BI 0108, CH 0084.

This course focuses on the study of physiological and biological life processes with a focus on deviations from normal, including exemplar cases. Manifestations of disease and alterations in all body systems are discussed. Pharmacologic therapies commonly used to manage disease are presented, including content on the recognition of side effects, adverse effects, allergy, and overdose. 42 theory hours.

**4 Credits****NS 0305 Mental Health Nursing****4 Credits****Prerequisites:** BI 0151\*, NS 0110, NS 0112, NS 0270\*, NS 0303\*, PY 0111.

The focus of this course is the nursing care of individuals with psychiatric disorders. A holistic approach based on theories of human behavior and personality as well as neurobiological, developmental, trauma-informed, and recovery-oriented models are used to plan and implement care in a variety of settings. Factors that may contribute to an individual developing a psychiatric disorder are discussed and ethical, legal and cultural issues are considered when planning care. The development of a therapeutic nurse-patient relationship and use of communication techniques to promote healing are emphasized. 42 theory hours, 42 clinical hours. (\*indicates concurrency allowed)

**NS 0305C Mental Health Nursing Clinical****0 Credits****NS 0307 Fundamentals of Nursing Care****4 Credits****Prerequisites:** MA 0016 or higher, NS 0270.

In this course, evidence based practice is used as a guide for students to learn how to provide safe and effective patient care across the lifespan. In the laboratory setting, students perform basic to advanced psychomotor skills related to nursing care. Students also learn to effectively use an electronic health record to document clinical findings and care. 28 theory hours, 56 lab hours.

**NS 0307L Fundamentals of Nursing Care Lab****0 Credits****NS 0310 Foundations of Research for Evidence Based Practice** **3 Credits****Prerequisite:** MA 0017 or MA 0217.

This course provides an introduction to the research process and its application to scholarship in clinical practice. Students learn to be consumers of research through a review of the literature, critique of research, and identification of methods appropriate to study specific practice-related problems. An emphasis is placed on clinical reasoning and writing skills. Consideration is given to ethical, economic, technological, and statistical dimensions. Application is made to clinical research and evidence-based practice. 42 theory hours.

**NS 0312 Medical Surgical Nursing I****5 Credits****Prerequisites:** NS 0272, NS 0301\*, NS 0303\*, NS 0305\*, NS 0307.

This course introduces the student to illnesses common in the adult population. The nursing process, theory, and evidence-based practice, are incorporated with clinical practice. An emphasis is placed on clinical reasoning and prioritizing patient care. Throughout the course, informatics is integrated as part of the documentation process for clinical experiences. 42 theory hours, 84 clinical hours. (\*indicates concurrency allowed)

**NS 0312C Medical Surgical Nursing I Clinical****0 Credits****NS 0314 Maternal and Newborn Nursing****4 Credits****Attributes:** WSGF Women, Gender, and Sexuality Studies: Gender Focused  
**Prerequisites:** NS 0301, NS 0303, NS 0305, NS 0307, NS 0312\*.

This course is designed to provide students with the opportunity to assist the patient and family to cope with changes in reproductive and gynecological needs. The childbearing cycle including: pregnancy, childbirth, postpartum, lactation, care of the healthy newborn and perinatal complications, and theoretical models will be explored. Cultural, ethical and legal aspects of reproductive health across the lifespan will be examined. Emphasis is on development of clinical reasoning and evidence based practice skills related to the nursing care of women and childbearing families. 42 theory hours, 42 clinical hours. (\*indicates concurrency allowed)

**NS 0314C Maternal and Newborn Nursing Clinical****0 Credits**

<b>NS 0321 Professional Nursing Leadership</b>	<b>3 Credits</b>	<b>NS 0332 Transition to Professional Nursing</b>	<b>4 Credits</b>
<b>Prerequisites:</b> NS 0250* or NS 0325*, NS 0310*.		<b>Prerequisites:</b> NS 0314, NS 0321*, NS 0323, NS 0325, NS 0330*.	
This course immerses students in issues and concepts central to professional nursing. Political, social, and legal systems that affect the image of nursing and influence its role definition are examined. Organizational dynamics and theories of leadership are considered, with case studies and concurrent clinical experiences providing the foundation for theory integration. Focus is placed on patient safety and quality improvement. 42 theory hours. (*indicates concurrency allowed)		This capstone course addresses provision of holistic, evidence based care to patients and families in a variety of health care settings. Students have the opportunity to work as a member of the health care team with an individual agency preceptor across the course. The focus is on fostering student growth in clinical reasoning, clinical reasoning and leadership development to promote autonomous professional nursing practice within the clinical setting. Students develop a Capstone Project based on an identified learning need, for the patient, the patient's family, or for the nursing staff. 168 clinical hours. (*indicates concurrency allowed)	
<b>NS 0323 Pediatric Nursing</b>	<b>4 Credits</b>	<b>NS 0332C Transition to Professional Nursing Clinical</b>	<b>0 Credits</b>
<b>Prerequisites:</b> NS 0301, NS 0303, NS 0305, NS 0307, NS 0312*.		<b>NS 0340 Introduction to Global Public Health for Non-Nurses</b>	<b>3 Credits</b>
This course utilizes a family centered care approach to provide an understanding of the unique anatomical, physiologic, and developmental differences among neonates, infants, children, adolescents, and young adults. Social and cultural influences on children and their families are discussed in addition to assessment, genetics, health promotion, injury prevention, acute and chronic illness, and palliative and end-of-life care. Students are challenged to implement effective communication techniques, clinical reasoning skills, and evidenced based practices when planning holistic and safe care for children and their families in a wide variety of clinical settings. 42 theory hours, 42 clinical hours. (*indicates concurrency allowed)		<b>Attributes:</b> HACA Humanitarian Action Minor Context Course, HSTE Health Studies: Traditions, Delivery, and Ethics, LCEL LACS Minor: Elective This course examines the social, economic and cultural factors impacting the health of societies worldwide and identifies key global health conditions. Principles of disease prevention, risk reduction, and health promotion are applied to diverse populations in the USA and worldwide. Students will analyze current and emerging global health priorities, including emerging infectious diseases, poverty, obesity, health inequities and conflicts and crises. Global issues related to the impact of social policies on healthcare and equity, and needs of vulnerable populations are also examined.	
<b>NS 0323C Pediatric Nursing Clinical</b>	<b>0 Credits</b>	<b>NS 0356 Transition Seminar for Professional Nursing</b>	<b>3 Credits</b>
<b>NS 0325 Medical Surgical Nursing II</b>	<b>5 Credits</b>	<b>Prerequisites:</b> Connecticut RN license, NS 0310, NS 0321*, NS 0330*.	
<b>Prerequisite:</b> NS 0310*, NS 0312.		This capstone course challenges the RN student to facilitate change in a clinical setting and positively influence patient outcomes. Students engage in collaborative interprofessional work with members of the healthcare team, and reflect on their own role as a professional nurse. Through this course, students demonstrate evidence based practice, leadership, and clinical reasoning to make the transition to an autonomous professional level of practice. 42 theory hours. (*indicates concurrency allowed)	
<b>NS 0325C Medical Surgical Nursing II Clinical</b>	<b>0 Credits</b>	<b>NS 0360 Critical Care Nursing</b>	<b>3 Credits</b>
<b>NS 0330 Community, Public, and Global Health Nursing</b>	<b>4 Credits</b>	<b>Prerequisite:</b> NS 0325.	
<b>Attributes:</b> HSTE Health Studies: Traditions, Delivery, and Ethics, LCEL LACS Minor: Elective, WDIV World Diversity		This elective course is an introduction to critical care nursing. The focus is placed on nursing diagnoses and evidence based practice in the care of the critically ill patient. Common issues such as ethical dilemmas, psychosocial challenges, and symptom management are discussed. Relevant nursing implications for the care of critically ill patients are addressed. Students also gain skills in advanced critical care, hemodynamic monitoring, and ventilator management. 42 theory hours.	
<b>Prerequisites:</b> NS 0250* or NS 0325*.		<b>NS 0399 Independent Study</b>	<b>1-6 Credits</b>
This course focuses on the care of people in their homes, in communities, and around the world. Principles of disease prevention, risk reduction, and health promotion are applied to diverse populations in the USA and worldwide. Students synthesize prior experience and learning with public health theory to provide collaborative, quality care across the lifespan. Using an ecological model, students engage in evidence based care for individuals, families, groups, communities and populations. Global issues related to the impact of social policies on healthcare and health equity, and needs of vulnerable populations are also examined. 42 theory hours, 42 clinical hours. (*indicates concurrency allowed)		Through individually designed projects or activities, students work with a faculty member to study a specific area in depth. Enrollment by permission only.	
<b>NS 0330C Community, Public, and Global Health Nursing Clinical</b>	<b>0 Credits</b>		

<b>NS 0521 Advanced Nursing Roles for Systems Leadership and Improvement</b>	<b>4 Credits</b>	<b>NS 0598 Independent Study</b>	<b>1-5 Credits</b>
This course provides evidence-based knowledge and skills to maximize the development of one's leadership role in evolving and challenging healthcare systems. Discussion of advanced nursing roles will be explored as vital members of the interprofessional team. Discussion and clinical application will focus on supporting students to develop their ability to be collaborative, knowledge-based decision makers and facilitators in the context of systems analysis and improvement. The intent of this course is to explore the many facets of leadership and healthcare improvement, and to examine strategies that will develop nurse leaders to promote health, improve outcomes, and facilitate the design of high-performing systems that better serve patients, families, staff, and the organization. Students will develop proficiency in reflective practice, and evaluating and communicating data as a means to support systems improvement. 42 theory hours, 50 clinical hours.			
<b>NS 0523 Quality Outcomes Management I</b>	<b>4 Credits</b>	<b>NS 0601 Epidemiology and Biostatistics</b>	<b>3 Credits</b>
<b>Prerequisites:</b> NS 0521, NS 0601, NS 0604, NS 0605, NS 0608, NS 0614, NS 0640, NS 0641.			
Students in this course implement the interdisciplinary role of the Nurse Leader. Emphasis is placed on identifying patient outcomes and designing systems to effectively manage these outcomes. Under the mentorship of faculty and an agency preceptor, students implement clinical and teaching interventions to promote positive patient outcomes. Using leadership and management skills, students demonstrate clinical competence through implementation of various aspects of the nursing leadership role. Methods of evaluating patient outcomes are explored and implemented in clinical settings. Clinical conferences provide the framework for analyzing students' experiences in transitioning to the nursing leadership role. 28 theory hours; 100 clinical hours.			
<b>NS 0524 Quality Outcomes Management II</b>	<b>5 Credits</b>	<b>NS 0602 Healthcare Economics and Marketing</b>	<b>3 Credits</b>
<b>Prerequisite:</b> NS 0523.			
Students in this immersion experience implement the interdisciplinary role of the clinical nurse leader (CNL) to design systems for the effective management and evaluation of patient outcomes across the continuum of care. Under the mentorship of faculty and an agency preceptor, students complete, as their capstone project, an evidence-based organizational change that builds upon a clinical problem examined in previous courses. Projects integrate best practices, principles of effective leadership and negotiation skills, use of information systems to evaluate patient outcomes, and theories of organizational behavior in the design of their healthcare initiative. Clinical conferences provide a venue to analyze students' experiences in transitioning to the CNL role and to explore their role in creating the future of nursing. 250 clinical hours.			
<b>NS 0525 Master's Leadership Practicum</b>	<b>3 Credits</b>	<b>NS 0604 Advanced Health Assessment</b>	<b>4 Credits</b>
<b>Prerequisites:</b> NS 0521, NS 0601, NS 0604, NS 0605, NS 0608, NS 0614, NS 0640, NS 0641.			
This practicum builds upon experiences gained in the Integrated Healthcare Leadership Track to expand student opportunities to apply nursing and healthcare improvement principles in a variety of settings. Students and faculty develop specific practicum sub-objectives that lead to increasing independence and accountability in practice. Students complete a capstone project that reflects critical thinking, decision-making skills, and the ability to incorporate leadership process. The capstone is an analysis, synthesis, and utilization of knowledge from previous courses and experiences. Integrated Healthcare Practicum projects specifically highlight the student's work in graduate electives, specific healthcare interests and clinical expertise. 150 clinical hours.			
<b>NS 0605 Advanced Healthcare Policy</b>	<b>3 Credits</b>		
This course focuses on the analysis of healthcare policy principles that impact practice-level and system-wide practice initiatives influencing quality of care delivery. Principles of healthcare financing and its impact on healthcare policy development across all stakeholders are evaluated. Students gain skills in participating in institutional, local, state, federal, and international health policy, influencing policy makers involved in healthcare. Current health policy is analyzed and new proposals debated on issues ranging from access for the uninsured to palliative care, mental health parity to long-term care reimbursement, and pay for performance to entry level education for health professionals. Analysis and debate considers differences in nations and cultures. 42 theory hours.			

**NS 0608 Research Methods for Evidenced-Based Practice      3 Credits**

This course prepares advanced nurses to identify practice problems and critique current research for relevance and application to practice. An overview of the philosophy of science and knowledge development in relation to the development of nursing science and middle range theories will be presented. Basic concepts of qualitative and quantitative research methods will be examined. Using a reflective research approach, students identify a practice problem to address a clinical question derived from a problem identified within a specific population or setting, and develop a plan for implementing an evidence-based practice project. 42 theory hours.

**NS 0609 Role Reflective Practice for MSN-DNP Students      1 Credit**

This online module course introduces reflective practice, portfolio development and health policy for the doctoral of nursing practice student. The methods, processes, applications, benefits, and limitations of reflection and reflective practice are examined. Advanced practice roles of expert clinician, collaborator, educator, teacher, consultant, advocate, researcher and manager are addressed through exemplars of reflective praxis. Students identify and analyze a health policy issue and develop strategies to influence the political process toward change. 14 theory hours.

**NS 0610 Advanced Nursing Roles and Reflective Practice      3 Credits**

This course examines advanced nursing roles within a reflective practice model. The methods, processes, applications, benefits, and limitations of reflection and reflective practice are discussed. Advanced nursing roles of expert clinician, collaborator, educator, teacher, consultant, advocate, researcher, and manager are addressed as exemplars of reflective praxis. An overview of the history of advanced nursing practice and reflective practice are discussed. In addition, practice issues are addressed including: the impaired professional, credentialing, regulation, legal, ethical, and cultural considerations. Communication, self-awareness, and partnership are promoted as integral to reflective advanced nursing practice. 42 theory hours.

**NS 0611 Population Health      3 Credits**

This course presents the foundational skills required for DNP students to engage in a systematic approach to promoting population health. Evidence-based strategies inform how to identify and assess at-risk populations, implement both preventive and therapeutic interventions, and assess outcomes at the population level. Models of health promotion and illness prevention synthesize psychological, biophysical, cultural, and social dimensions to analyze population-based health outcomes. Social determinants of health, Healthy People 2020, Institute for Healthcare Improvement (IHI), and Institute of Medicine 2012 Report: Primary Care and Public Health: Exploring Integration to Improve Population Health documents are examined as a basis for moving beyond individual interventions to promote change and health equity, and to support population health at institutional, local, state, and national levels. The impact of population health interventions are analyzed based on national initiatives, trends and standards.

**NS 0612 Research Translation for Clinical Practice      3 Credits**

**Prerequisites:** NS 0601, NS 0608.

This course focuses on the critical analysis, synthesis and application of qualitative and quantitative research methods for improvement of outcome indicators at the individual, family, system and population level. Emphasis will be placed on current paradigms of scholarship including Boyer's Model of Scholarly Nursing and the philosophy of reflective practice, bridging the gap between research and practice, and outcome assessment in advanced nursing practice. The evaluation of instruments to measure outcomes and methods of qualitative analysis will be examined, and ethical and legal considerations will be addressed as they relate to the IRB process. The process of identifying potential sources of grant funding and models of long-term program evaluation will also be explored. Students will develop an IRB-ready project proposal based upon a previously identified practice problem within their area of specialization. 42 theory hours.

**NS 0613 Finance and Quality Management in Healthcare Organizations      3 Credits**

This course focuses on finance and quality management in complex healthcare systems. Students develop the ability to make sound decisions and be change agents through the use of interprofessional collaboration and nursing consultation. As a member and leader of interdisciplinary teams, safe, reliable, and cost-effective care for individuals, cohorts and communities is designed and evaluated for best practices. Principles of business, finance, risk management, and economics are examined in order to analyze, develop and implement practice-level and system-wide practice initiatives. Leadership and the process of healthcare delivery from a systems perspective emphasize continuous process improvement to achieve quality outcomes. Effective strategies are evaluated for managing the ethical dilemmas inherent in patient care and healthcare organizations. 42 theory hours.

**NS 0614 Information Technology for Healthcare Improvement      3 Credits**

This course focuses on the evaluation and utilization of information systems and technology in order to support and improve patient care and health care systems, provide leadership within health care systems and/or academic settings and impact quality improvement initiatives with emphasis on the, macro and meso system levels. Discussion focuses on the design, selection and utilization of information systems as a means to evaluate programs of care, outcomes of care and care systems. In addition, students will evaluate the use of information systems and technology resources using case studies to implement quality improvement initiatives, support practice and administrative decision-making, and apply budgetary and productivity tools to support and improve patient outcomes. Discussion of the legal, ethical and cultural issues as they relate to the use of information technology for improvement of health care will be woven throughout the course. 42 theory hours.

**NS 0615 Leadership and Interprofessional Collaboration      3 Credits**

The intent of this course is to facilitate the development of collaborative leadership skills for nurses to lead and improve outcomes and facilitate the design of high performing clinical settings in a global society. Theories of leadership, management, and organizational behavior such as vision, motivation, group dynamics, interpersonal relations, negotiation, organizational politics, career development, job design, communication, conflict management, and consultative processes are applied to healthcare settings. Emphasis is on collaboration with inter-professional teams to improve outcomes for patients, families, staff, and healthcare systems. 42 theory hours.

<b>NS 0640 Advanced Physiology and Pathophysiology</b>	<b>3 Credits</b>	<b>NS 0643 Adult Health II</b>	<b>4 Credits</b>
The course focuses on the physiological processes central to biophysical and psychopathologic alterations of function across the lifespan. Analysis of physiologic responses and implications of genetics and genomics with illness are included. Interpretation of laboratory data for patient management of acute and chronic disease is discussed. Students analyze case studies of hospitalized and primary care patient scenarios. 42 theory hours.		<b>Prerequisite:</b> NS 0642.	
<b>NS 0641 Advanced Pharmacology</b>	<b>3 Credits</b>		
<b>Prerequisite:</b> NS 0640 or NS 0669.		This course focuses on the pharmacotherapeutic principles of drugs most commonly prescribed by advanced practice nurses and evaluated by advanced education nurses. Emphasis is placed on the process of selecting appropriate agents for the patient's genetic profile, and monitoring adverse drug reactions or interactions with prescription, over-the-counter and alternative therapies. The role of the advanced practice nurse and advanced education nurse in educating and counseling patients across the life span with regard to medication use and the unique affect on individuals is discussed. This course is designed to meet the pharmacology requirement for APRN licensure in Connecticut. 42 theory hours.	
<b>NS 0642 Adult Health I</b>	<b>3 Credits</b>	<b>NS 0644 Practicum in Adult Health I</b>	<b>4 Credits</b>
<b>Prerequisites:</b> NS 0604, NS 0640, NS 0641.		<b>Prerequisite:</b> NS 0643.	
This course focuses on the primary healthcare of the adolescent, adult, and older adult, particularly regarding the assessment, diagnosis, treatment, management, and evaluation of risk factors and problems commonly encountered by the advanced practice nurse. Management of both the physical and behavioral mental health issues common to adult acute and chronic health problems is included. The identification and clinical management of abnormal findings generated from age-appropriate screenings, genetic history, and cultural assessments are addressed. Case studies depicting problems encountered from adolescence through older adulthood are discussed. Emphasis is placed on critical thinking and clinical judgment as they relate to the development of appropriate differential diagnoses. Additionally students learn nonpharmacological and pharmacological approaches to the management of problems in interprofessional teams, participate in shared decision making with patients/families regarding treatment options, as well as manage target goal evaluation. Nationally accepted evidence-based practice guidelines for frequent ICD code diagnoses and review of treatment costs are analyzed. 42 theory hours.		Students apply theoretical learning about genetic implications, exacerbations, complications, and remissions of acute and chronic illnesses in the primary care of adults from adolescence through older adulthood in various care environments. Under the supervision of a nurse practitioner, physician assistant or physician, students provide primary care to adult patients from diverse populations. Clinical conferences provide an opportunity for discussion and sharing of patient issues encountered in the practicum as they relate to the diagnosis, treatment, management, shared decision making, evaluation and prevention of illness, ethical and cost implications, risk assessment, and health promotion. Reflective practice techniques are used to document selective patient encounters. The advanced practice role components of clinical practice, consultation, collaboration, and education are discussed and analyzed in the clinical conference. 200 clinical hours.	
<b>NS 0645 Care of Children and Families</b>	<b>3 Credits</b>		
<b>Corequisite:</b> NS 0646.		<b>Prerequisite:</b> NS 0643.	
		The assessment, diagnosis, treatment, management, and evaluation of risk factors and health problems of children, adolescents and families across environments of care are addressed. Consideration is given to the unique needs of culturally diverse patients, as well as the management of both physical and behavioral mental health manifestations commonly associated with acute and chronic health problems in primary care. The identification and clinical management of abnormal findings generated from age-appropriate assessments are a focus within this course. Emphasis is placed on critical thinking and clinical judgment as they relate to the development of appropriate differential diagnoses and approaches to the interprofessional health management including participation and shared decision making with children and parents regarding treatment options. Nationally accepted evidence-based practice guidelines are followed. Family theory is studied along with the impact of illness and violence on the family. 42 theory hours.	

**NS 0646 Practicum in Care of Women, Children, and Families      4 Credits****Corequisite:** NS 0645.**Prerequisite:** NS 0644.

Students synthesize theoretical learning about prevention, exacerbation, complications, and remission of acute and chronic illnesses in caring for families from diverse backgrounds in varied care environments under the supervision of a nurse practitioner, physician assistant, nurse midwife, or physician. Clinical conferences provide an opportunity for discussion and sharing of issues encountered in the practicum as they relate to the diagnosis, treatment, management, evaluation, and prevention of illness within the interprofessional team. Ethical and cost implications of selected interventions, as well as health promoting strategies, and shared decision making, are examined for the child, adolescent, woman, and family. The advanced practice role components of clinical practice, consultation, collaboration, and education are discussed and integrated in the clinical practicum and conference. 200 clinical hours.

**NS 0647 Care of At-Risk Populations      3 Credits****Corequisite:** NS 0648.**Prerequisites:** NS 0644, NS 0645.

This course focuses on the complex management of primary care problems experienced by individuals across the lifespan. Risk factors including infectious disease, inflammatory state, immunological deficiency, obesity, age, genetic predisposition, psychosocial status, and behavioral health problems and how they influence the management of an individual's health status are studied. The impact of issues such as mistreatment, abuse, homelessness, incarceration, and end-of-life concerns on healthcare needs are also examined. Students will explore issues of healthcare delivery across environments of care as they integrate all aspects of the advanced practice nurse role including shared decision making and interprofessional collaboration. Additional pharmacology is discussed for each system for a minimum of five hours. Reflective practice techniques are used to document selective patient encounters. A culminating project, selected by faculty and student, involving synthesis and use of knowledge from previous coursework and practica experiences is required. 42 theory hours.

**NS 0648 Practicum in Care of At-Risk Populations      4 Credits****Prerequisites:** NS 0646, NS 0647\*.

Students synthesize theoretical learning about prevention, exacerbation, complications, and remission of acute and chronic illnesses in the primary care of patients across the lifespan with multiple risk factors. Students gain knowledge in caring for patients experiencing or anticipating potential health crises collaboratively with the interprofessional healthcare team. Clinical conferences provide an opportunity for discussion of the impact of how varying factors such as obesity, culture, presence of behavioral disease, immunological status, presence of infectious disease, psychosocial status, and genetic predisposition relate to the diagnosis, treatment, management, evaluation, and prevention of illness. Strategies for using ethical guidelines, risk management, shared decision making, and health promotion in a cost-effective fashion with these individuals is stressed. Students maximize their leadership ability by delivering primary care creatively to patients in clinics, private practices, urgent care centers, Emergency Departments, long-term care facilities, prisons, college and school based clinics. 200 clinical hours. (\*indicates concurrency allowed)

**NS 0650 Psychopathology      3 Credits**

This course examines theories of personality and development with an aim to understand what motivates human behavior. The neurophysiology of psychopathology is examined within a trauma-informed explanatory model. Approaches examined include attachment, relational, psychodynamic, and social psychology theories. These models are discussed as they pertain to various diagnostic categories and cultural groups with an emphasis on reflective analysis and application to practice. Case studies and reflective application papers are used to illustrate integration and synthesis of knowledge. 42 theory hours.

**NS 0652 Mental Health Nursing of Individuals      3 Credits****Corequisite:** NS 0659.**Prerequisites:** NS 0521 or NS 0609 or NS 0610; NS 0604, NS 0640, NS 0641, NS 0650.

This course provides an overview of individual psychotherapeutic treatment across the lifespan using a neuroscience relationship-based framework for practice. Emphasis is on the development of empathy and therapeutic relationship through partnership, shared decision making, recovery oriented principles, and integration of reflective practice. Evidence-based techniques are discussed, which include short-term psychodynamic, cognitive-behavioral, EMDR, and motivational interviewing. Ethical, legal, age and ethno-cultural considerations are discussed as they relate to the treatment of individuals with psychiatric disorders and mental health problems. 42 theory hours.

**NS 0659 Foundational Clinical Skills for Advanced Psychiatric Nursing Practice      3 Credits****Prerequisite:** NS 0650.

This course focuses on simulated activities in individual and group settings to develop (1) an understanding of group dynamics, group process components, and group members' roles and behaviors, and (2) skills in comprehensive psychiatric assessment and diagnosis with individuals experiencing acute mental health problems. Therapeutic communication techniques and specific interviewing strategies for working with individuals and families across the lifespan who are in crisis and/or seeking mental health care. Those strategies are examined within the context of a reflective practice model. Ethical, legal, and ethno-cultural considerations as they relate to group dynamics and assessment and diagnosis of psychiatric disorders will be discussed.

**NS 0661 Mental Health Nursing of Groups and Families Across the Lifespan      2 Credits****Corequisite:** NS 0666B.**Prerequisite:** NS 0652.

This course addresses the basic tenets of group and family therapy across the lifespan for the psychiatric-mental health nurse practitioner. Students examine major concepts of group development, dynamics, and leadership techniques, as well as approaches to family (including the works of Bowen, Haley and Minuchin), with opportunities to incorporate shared decision making and reflect upon choice of techniques appropriate for different age groups and the role of the therapist. Videotape and experiential exercises are used to enhance learning, and ethical, spiritual, and ethno-cultural considerations are addressed. 28 theory hours.

**NS 0663 Primary Mental Health Nursing Across the Lifespan** **2 Credits****Corequisite:** NS 066C.**Prerequisite:** NS 0661.

This course is designed to develop increasing independence and clinical judgment in primary mental health nursing with an emphasis on interprofessional collaboration and shared decision making with patients/families regarding treatment options. Building on knowledge from preceding coursework, students apply theories, multifaceted treatment modalities, cultural and spiritual considerations in the management of complex and/or chronically ill vulnerable populations across the lifespan. Evidence-based research and practice guidelines are incorporated into comprehensive plans of care for complex diverse populations with psychiatric diagnoses and mental health problems. 42 theory hours.

**NS 0665 Mental Health Nursing of Children and Adolescents** **2 Credits****Prerequisite:** NS 0650 (concurrency allowed).

This course focuses on the assessment, diagnosis, treatment, management and evaluation of risk factors and mental health problems of infants, children and adolescents across systems of care. Building on knowledge from preceding coursework, students apply developmental, family, interpersonal, attachment, and neurobiological theories and research, multifaceted treatment modalities, cultural and spiritual considerations in the management of behavioral health problems of infants, children and adolescents. 28 theory hours.

**NS 0666A Practicum I: PMHNP** **4 Credits****Prerequisite:** NS 0652\*.

Practica experiences give students the opportunity to integrate primary mental health skills and meet the competencies required by the PMHNP Program. Focus is on the continuous and comprehensive care necessary for the promotion of optimal mental health, prevention, and treatment of mental health problems and psychiatric disorders. Practica experiences are designed to synthesize reflective practice skills as an advanced practice psychiatric nurse. Clinical sites may include a wide range of settings, such as outpatient clinics, shelters, prisons, inpatient settings, long-term care, and home health care. Supervision is provided by the preceptors in the clinical agency. Group supervision on campus facilitates the consolidation of critical reflection and clinical judgment. All objectives must be met in order to graduate and many will be met many times throughout the practica. A minimum of 16-17 different objectives are documented as met in each practicum depending on the clinical site and illustrated through the Clinical Case Narrative Assignment. More than one Clinical Case Narrative may be needed in order to demonstrate that a minimum of 16 objectives are met for that practicum. 200 clinical hours.

(\*indicates concurrency allowed)

**NS 0666B Practicum II: PMHNP** **4 Credits****Corequisite:** NS 0661.

Practica experiences give students the opportunity to integrate primary mental health skills and meet the competencies required by the PMHNP Program. Focus is on the continuous and comprehensive care necessary for the promotion of optimal mental health, prevention, and treatment of mental health problems and psychiatric disorders. Practica experiences are designed to synthesize reflective practice skills as an advanced practice psychiatric nurse. Clinical sites may include a wide range of settings, such as outpatient clinics, shelters, prisons, inpatient settings, long-term care, and home health care. Supervision is provided by the preceptors in the clinical agency. Group supervision on campus facilitates the consolidation of critical reflection and clinical judgment. All objectives must be met in order to graduate and many will be met many times throughout the practica. A minimum of 16-17 different objectives are documented as met in each practicum depending on the clinical site and illustrated through the Clinical Case Narrative Assignment. More than one Clinical Case Narrative may be needed in order to demonstrate that a minimum of 16 objectives are met for that practicum. 200 clinical hours.

**NS 0666C Practicum III: PMHNP** **4 Credits****Corequisite:** NS 0663.

Practica experiences give students the opportunity to integrate primary mental health skills and meet the competencies required by the PMHNP Program. Focus is on the continuous and comprehensive care necessary for the promotion of optimal mental health, prevention, and treatment of mental health problems and psychiatric disorders. Practica experiences are designed to synthesize reflective practice skills as an advanced practice psychiatric nurse. Clinical sites may include a wide range of settings, such as outpatient clinics, shelters, prisons, inpatient settings, long-term care, and home health care. Supervision is provided by the preceptors in the clinical agency. Group supervision on campus facilitates the consolidation of critical reflection and clinical judgment. All objectives must be met in order to graduate and many will be met many times throughout the practica. A minimum of 16-17 different objectives are documented as met in each practicum depending on the clinical site and illustrated through the Clinical Case Narrative Assignment. More than one Clinical Case Narrative may be needed in order to demonstrate that a minimum of 16 objectives are met for that practicum. 200 clinical hours.

**NS 0667 Psychopharmacology** **2 Credits**

This course prepares the advanced practice psychiatric nurse to prescribe psychotropic medication for patients across the lifespan. Assessing for the need for medication, selection of appropriate medication, genetic and genomic assay testing, medication rule-outs, baseline tests for screening, safe and proper monitoring, and beginning/advanced pharmacotherapy options are discussed for a variety of psychiatric diagnoses. Shared decision making with patients/families regarding treatment options to obtain optimum treatment outcomes is emphasized with respect to issues of adherence and recovery-focused practice. 14 theory hours. Open to nursing students only.

**NS 0668 End-of-Life Nursing Education Consortium Core Curriculum** **3 Credits**

This course will cover the ELNEC Core Curriculum, which contains eight modules addressing critical aspects of end-of-life care. These modules include: Palliative Nursing Care, Pain Management, Symptom Management, Ethical Issues in Palliative Care Nursing, Cultural Considerations in Palliative Care, Communication, Loss, Grief and Bereavement, Final Hours and Leadership. Upon completion of the course, student will be a "train-the-train" for the ELNEC Core curriculum. Teaching resources will be provided to allow the student to educate other nurses about palliative and end-of-life care. 42 theory hours.

**NS 0669 Advanced Pathophysiology for Anesthesia Practice 4 Credits**

This course focus is on the pathophysiological processes central to alterations in function across the lifespan. Analysis of pathophysiologic responses, implications of genetics and genomics, and laboratory data pertinent to acute and chronic disease is discussed. Students analyze the pathophysiology of patients presenting for in-patient and ambulatory procedures using a case study approach. 56 theory hours.

**NS 0670 Human Anatomy and Physiology for Nurse Anesthetists 3 Credits**

This course presents an in-depth study of human anatomy and advanced physiologic principles as they relate to nurse anesthesia practice. An overview of cellular physiology and function is presented. Special attention is placed on the cardiovascular, respiratory and renal systems, as well as the normal neuroendocrine response to stress. Tests of respiratory and cardiovascular function are reviewed and their analysis discussed. 42 theory hours.

**NS 0687 DNP Immersion 1-6 Credits**

DNP graduates are healthcare leaders who will care for a cohort of patients within their specialty, while using a cross-population perspective to assess, manage and evaluate common problems. The immersion experience prepares the graduate in the design, delivery, and evaluation of evidenced-based care incorporating advanced practice nursing competencies. In addition, students will provide leadership in promoting evidenced-based practice in the advanced practice specialty while functioning as a practice specialist/consultant in the resolution of clinical problems. The DNP immersion experience requires a minimum of 1,000 practicum hours, post-baccalaureate, and incorporates completion of a clinical portfolio at the end of the program. 50 to 250 clinical hours.

**NS 0687F DNP Immersion 1 Credit**

See NS 0687.

**NS 0697 DNP Seminar I 1 Credit**

DNP Seminar I provides the foundation for development of the DNP Portfolio and the scholarly DNP Project. In conjunction with the first two research courses in the DNP curriculum, this seminar gives students the opportunity to further refine their proposed DNP project aimed at improving the healthcare delivery system or patient outcomes. This project could be a pilot study, a program evaluation, a quality improvement project, an evaluation of a new practice model, or another project with a similar practice improvement focus. Project plans are developed to include the identification of an appropriate clinical practice problem, the patient/system/population outcomes that the project is intended to affect, the proposed project site, and the proposed steps from implementation and outcome assessment. Students will continue to work with their Portfolio Advisor in developing the project. In addition, students will evaluate their initial development of the DNP Portfolio and identify potential Immersion experiences that focus on achieving program outcomes.

**NS 0698 Independent Study 1-3 Credits**

Through individually designed projects or activities, students work with a faculty member to study a specific area in depth. Enrollment by permission of the instructor, DNP Program Director, and/or Dean only.

**NS 0699 DNP Seminar II 1 Credit**

**Prerequisite:** NS 0697.

DNP Seminar II is designed to provide students with the opportunity to synthesize knowledge as they transition to advanced practice nursing at the doctoral level. The seminar reflects integration of all course work and experiential learning in order to demonstrate the students' integration and utilization of evidence based-practice, finance, management, quality improvement, informatics, leadership, ethics, and reflective practice in the management of individual patients, populations, and healthcare systems. Students will be given an opportunity to develop a poster for professional presentation, give case presentations developed during immersion experiences, present drafts of manuscripts and/or practice guidelines, and participate in the peer review process to demonstrate expertise and decision making skills in their individual area of specialization.

## Nursing: Anesthesia (NSAN)

**NSAN 0671 Pharmacologic Strategies in Anesthesia Practice 3 Credits**

**Prerequisites:** NS 0604, NS 0670, NSAN 0673.

This course presents a comprehensive study of the pharmacokinetics, pharmacodynamics and pharmacogenetics of drugs utilized in anesthesia practice. Students will focus upon the mechanisms of action of inhalational anesthetics, intravenous anesthetics, and neuromuscular blocking agents. Special attention will be placed upon the comparative pharmacology of all anesthetic agents as well as their effects on all organ systems. Emphasis will be placed on the practical applications of the anesthetic agents through case presentations and group discussion.

**NSAN 0673 Chemistry and Physics for Nurse Anesthetists 3 Credits**

This course provides a detailed discussion of basic organic, inorganic and biochemical principles, and basic physical principles as they related to nurse anesthesia practice. Emphasis is placed upon the behavior of gases and the gas laws, principles of diffusion, gas flow and resistance, acid-base balance, and the biochemical processes necessary for basic cellular function. In addition, the basic physical principles of work, energy, light, electricity and radiation are discussed with a focus on operating room safety and the use of biomedical equipment. Group discussion is utilized to facilitate the application of these principles to the clinical setting.

**NSAN 0675 Clinical Orientation and Specialty Rotations 1 Credit**

**Prerequisite:** NSAN 0671.

Clinical orientation is designed to introduce the student to the hands-on basics of nurse anesthesia practice. Emphasis will be placed on anesthesia equipment setup drug preparation, basic airway management skills and basic regional anesthesia skills. In addition, students will begin the process of developing patient specific anesthesia care plans on simulated patients utilizing current best practices. Students also take part in an orientation to the PACU, anesthesia pain service, anesthesia preoperative holding area, preoperative testing and respiratory therapy service. These rotations introduce the student to the adjunct hospital services necessary for the care of the patient during the perioperative period. Current standards of care and codes of ethical practice will also be explored.

<b>NSAN 0676 Clinical Practicum I</b> <b>Prerequisites:</b> NSAN 0675, NSAN 0678.	<b>1 Credit</b>	<b>NSAN 0683 Clinical Correlation Conference</b> <b>Corequisite:</b> NSAN 0685. <b>Prerequisite:</b> NSAN 0682.	<b>2 Credits</b>
Clinical Practicum I is designed for the novice practitioner to integrate academic knowledge with basic practical application. Emphasis will be placed on basic airway management, function and usage of anesthesia equipment; pre-operative assessment and evaluation, intra-operative management and post-anesthesia management for healthy ASA class I and class II patients. The student works side by side with a certified anesthesia provider at all times.		This course provides students with the opportunity to integrate knowledge necessary for professional nurse anesthesia practice utilizing comprehensive case presentations, which integrate and discuss current anesthesia topics, equipment, techniques and practices involved in current anesthesia case management. Ethical considerations as they apply to specific case management will be discussed. This review will utilize a combination of didactic lectures, exams, case presentations and seminar discussions. An emphasis will be placed on neuroanesthesia and the anesthetic management for major coexisting disease in preparation for the national certification exam.	
<b>NSAN 0677 Clinical Practicum II</b> <b>Prerequisite:</b> NSAN 0676.	<b>1 Credit</b>	<b>NSAN 0685 Clinical Practicum V</b> <b>Prerequisite:</b> NSAN 0682.	<b>2 Credits</b>
This clinical practicum provides experience for the beginning intermediate student practitioner who has demonstrated successful completion of clinical practicum I. Clinical practicum II deals with the incorporation and integration of knowledge, skills and objectives for a more comprehensive and complex range of patients and surgeries. Emphasis is placed on the development of independent critical decision making skills as the students begins to gain independence in practice.		This final clinical practicum is designed to allow the Complex Practitioner to demonstrate the integration of all previous knowledge, skills and objectives, for the anesthetic management of all ASA I-V and ASA IE-IVE patients. At the completion of Clinical Practicum V the student will be able to function as an independent practitioner and will have met all of the requirements in order to sit for the national certification examination. The complex practitioner will be able to formulate, implement and evaluate a plan for perioperative anesthesia care for adult and pediatric ASA I-V and ASA IE-VE patients, demonstrate critical thinking skills in all clinical situations and patient care venues, work in a collaborative effort with other members of the anesthesia and surgical care team, function as a team leader and collaborative member in cardiopulmonary resuscitation, and exhibit ethical and professional behavior in anesthesia practice.	
<b>NSAN 0678 Regional Anesthesia and Pain Management in Clinical Practice</b> <b>Prerequisite:</b> NSAN 0671.	<b>2 Credits</b>	<b>NSAN 0686 Principles of Nurse Anesthesia Practice I</b> <b>Prerequisites:</b> NS 0604, NS 0670, NSAN 0673.	<b>3 Credits</b>
This course presents a comprehensive study of the regional anesthesia techniques currently utilized in clinical practice. Basic principles of neuroscience, pharmacology of local anesthetics and ultrasound technology will be applied. Emphasis will be put on the appropriate selection and application of regional techniques to achieve optimal anesthesia and analgesia for surgery and pain management. Teaching methods will include lecture, demonstration and hands-on regional workshops.		This course provides an in-depth introduction to the basic principles of anesthesia practice as they apply to the general perioperative management of patients across the lifespan. Emphasis is placed on pre-anesthesia assessment, anesthesia equipment, patient monitoring, airway management and basic regional anesthesia techniques. Students analyze current best practices in the development of the general anesthesia plan of care.	
<b>NSAN 0680 Clinical Practicum III</b> <b>Prerequisite:</b> NSAN 0677.	<b>2 Credits</b>	<b>NSAN 0687 Principles of Nurse Anesthesia Practice II</b> <b>Prerequisites:</b> NSAN 0671, NSAN 0686.	<b>3 Credits</b>
This course provides experience for the intermediate student practitioner in order to incorporate and integrate advanced academic knowledge, clinical skills and critical decision making for a more comprehensive range of patients. At the completion of Clinical Practicum III the student will demonstrate the ability to manage the anesthesia care of the ASA class I-V and IE-VE with supervision. Student independence is encouraged as the intermediate anesthesia provider works alone with attending physicians for healthy uncomplicated procedures and supervised for more complex cases.		This course provides an in-depth discussion of the anesthetic management for specific patient populations, coexisting disease states and surgical procedures. Emphasis will be placed on the related pathophysiology, as well as the practical clinical considerations involved in administering anesthesia and providing appropriate patient monitoring in specialty anesthesia practice. Focus is placed on the management of patients undergoing intra-abdominal, thoracic, cardiac, neurosurgical, and head and neck procedures, and the associated disease states.	
<b>NSAN 0682 Clinical Practicum IV</b> <b>Prerequisites:</b> NSAN 0680.	<b>2 Credits</b>	<b>NSAN 0688 Principles of Nurse Anesthesia Practice III</b> <b>Prerequisite:</b> NSAN 0687.	<b>2 Credits</b>
This clinical practicum is designed to allow the advanced student practitioner to integrate all previously attained knowledge and clinical skills into anesthesia practice for all elective and emergency ASA class I-V patients. At the completion of Clinical Practicum IV the Advanced Student Practitioner will be able to formulate, implement and evaluate a plan for perioperative anesthesia care for adult and pediatric ASA I-V patients and ASA IE-VE patients with supervision, demonstrate critical thinking skills in a diverse range of clinical situations, including off-site anesthesia locations and as a member of the "code team", work in a collaborative effort with other members of the anesthesia and surgical care teams, exhibit ethical and professional behavior in anesthesia practice and function as a patient advocate.		This course continues the in-depth discussion of the anesthetic management for specific patient populations, coexisting disease states and surgical procedures. Emphasis will be placed on the related pathophysiology, as well as the practical clinical considerations involved in administering anesthesia and providing appropriate patient monitoring in specialty anesthesia practice including pediatric and obstetric anesthesia care. The management of neuromuscular and endocrine disorders, burn injuries, organ transplantation and diagnostic/therapeutic procedures will be discussed.	

# Nursing: Midwifery (NSMW)

## **NSMW 0620 Antepartum Care**

**3 Credits**

**Corequisites:** NS 0604, NS 0640, NSMW 0621.

This course introduces students to the theory and practice of nurse-midwifery, with an emphasis on antepartum care. Care of the pregnant woman, fetus, and childbearing family during the prenatal period are explored holistically from each of the following perspectives: biological, physiological, developmental, and cultural. The educational and nutritional needs of the pregnant woman are examined. Students learn how to perform comprehensive assessments on a pregnant woman at all gestational ages, as well as the timing and indication of screening tests during pregnancy. An emphasis is placed on prevention and screening based on evidenced-based research. Normal fetal growth and fetal testing options are covered. Research-based advanced nursing interventions, including physiological, psychosocial and pharmacological interventions to promote, to maintain, and to restore the optimal health of women in pregnancy are explored. Clinical practice guidelines are highlighted and attention given to cultural, socioeconomic and family variations in the provision of care in the antepartum setting.

## **NSMW 0621 Antepartum Clinical**

**2 Credits**

**Corequisites:** NS 0604, NS 0640, NSMW 0620.

As the first practicum in the nurse-midwifery specialty, this clinical focuses on providing evidence-based care and utilizing health promotion when caring for the pregnant woman. Emphasis is placed on the physical exam of a pregnant woman, assessment of fetal wellbeing, and providing prenatal education. Students use critical thinking and clinical judgment as they relate the provision of care to pregnant woman. Evidence based-practice guidelines are followed to provide routine prenatal care as well as to recognize abnormal findings. The assessment, diagnosis, treatment, management and evaluation of risk factors and health problems will be addressed. Attention is given to cultural, socioeconomic and family variations in the provision of care in the antepartum setting.

## **NSMW 0622 Women's Primary Care and Gynecological Health I**

**3 Credits**

**Corequisites:** NS 0601, NS 0608, NS 0697.

**Prerequisites:** NS 0604, NS 0610, NS 0640, NSMW 0620, NSMW 0621. This course focuses on the provision of reproductive-based health care to non-pregnant women across the lifespan and on the provision of primary care to both non-pregnant and pregnant women. This course examines current primary care and gynecological women's health care practices and theories from the following disciplines: biological, genetic, psychological, developmental, sociocultural and cultural. Students will develop critical thinking, clinical care skills, and management strategies for a holistic approach to primary care and gynecologic care of women. Family planning and contraceptive options will be reviewed. Emphasis is on comprehensive assessments and screening recommendations from evidence-based research. Concepts related to health promotion are provided. The primary care management of selected common health conditions affecting women will be covered. Additionally, pharmacology specific to gynecologic and primary care issues will be included.

## **NSMW 0623 Women's Primary Care and Gynecological Health II**

**3 Credits**

**Corequisite:** NSMW 0624.

**Prerequisites:** NS 0641, NSMW 0622.

This course is a continuation of NSMW 0622 and focuses on the provision of reproductive-based health care to non-pregnant women across the lifespan and on the provision of primary care to both non-pregnant and pregnant women. This course further examines current primary care and gynecological women's health care practices and theories from the following disciplines: biological, genetic, psychological, developmental, sociocultural and cultural. Students in this course will develop critical thinking, clinical care skills, and management strategies for a holistic approach to primary care and gynecologic care of women. Emphasis is on comprehensive assessments and prevention and screening recommendations from evidence-based research. Having been introduced to the primary care and gynecologic health promotion and maintenance of women in NSMW 0622, this course will explore beyond these concepts, and further examine the abnormal conditions in the primary care and gynecologic setting. Pharmacology specific to women's health and abnormal conditions will be covered in depth. Attention will be given to common episodic and chronic primary care and gynecologic conditions of women in the healthcare settings. In addition, to primary care and gynecologic assessments, preconception and postpartum assessments (including breastfeeding) will be explored. Developmental considerations, vulnerable populations, and cultural needs, as they relate to health promotion will be discussed in depth.

## **NSMW 0624 Women's Primary Care and Gynecological Health Clinical**

**3 Credits**

**Corequisite:** NSMW 0623.

**Prerequisites:** NS 0641, NSMW 0622.

Focus on evidenced based practice approaches to primary care and gynecologic care, specifically, ambulatory management of common, acute, and chronic health conditions of women throughout the lifespan, including preconceptual, interconceptual, and postpartum care. Prevention and screening using patient databases and evidence-based research will be emphasized. Further emphasis will be on physiological, psychosocial, and pharmacological interventions with women. Age-related, cultural, family, and individual patient variations and vulnerabilities will be incorporated into the review of clinical practice guidelines.

## **NSMW 0625 Intrapartum Care**

**3 Credits**

**Corequisite:** NSMW 0626.

**Prerequisites:** NSMW 0623, NSMW 0624.

This course focuses on normal labor and birth and introduces students to intrapartum theory, skills, and management. Synthesis and application of theory and research to effectively implement midwifery care in the intrapartum setting. Focus is on comprehensive team participation and management of intrapartum and immediate postpartum women with normal deliveries. Evaluation and immediate care of the newborn is included. Development and evaluation of evidenced based care approaches is incorporated throughout the course. An emphasis is placed on vulnerable populations to critically evaluate the impact of contextual factors on healthcare services in the intrapartum setting. The course highlights the normalcy of birth for the low risk woman.

**NSMW 0626 Intrapartum Clinical****Corequisite:** NSMW 0625.**Prerequisites:** NSMW 0623, NSMW 0624.

Intrapartum clinical serves as the student midwife's first experience managing intrapartum clients in the hospital or birth center setting and as the foundational course for intrapartum management of the low risk pregnant client. Skills are first taught in didactic and simulation settings, ensuring each student midwife is checked off on these skills prior to beginning clinical. This clinical focuses on normal labor and birth and introduces students to intrapartum skills and management. Application of theory and research from NSMW 0625 will be used to effectively implement midwifery care in the intrapartum setting. Focus is on comprehensive team participation and management of intrapartum and immediate postpartum women with normal deliveries. Evaluation and immediate care of the newborn is included. An emphasis is placed on vulnerable populations to critically evaluate the impact of contextual factors on healthcare services in the intrapartum setting. This clinical highlights the normalcy of birth for the low risk woman.

**NSMW 0627 Advanced Midwifery Management: At-Risk****Childbirth****3 Credits****Corequisite:** NSMW 0628.**Prerequisites:** NSMW 0625, NSMW 0626.

Building on NSMW 0625, this course will provide synthesis and application of theory and research to effectively implement advanced midwifery care in the intrapartum setting. In this course, potential complications arising during normal birth are explored. Further, common medical, surgical, and obstetric complications are explored in depth. Case studies, case presentations, and simulations are utilized as the primary course format for the students to evaluate patients and manage common obstetric complications. Skills to prevent and manage common obstetric complications and life threatening problems of childbearing women will be emphasized. Skills for immediate assessment, supportive management of the newborn, including physiological, psychosocial and pharmacologic interventions will be incorporated. Students will have the opportunity to become certified in neonatal resuscitation. Interprofessional simulations with the nurse-anesthesia students and BSN maternal and newborn nursing students will be coordinated throughout the course to simulate actual patient scenarios with a focus on teamwork and communication.

**NSMW 0628 Advanced Midwifery Clinical****2 Credits****Corequisite:** NSMW 0627.**Prerequisites:** NSMW 0625, NSMW 0626.

Building on the prior clinical course NSMW 0626, this course will provide application of theory and research to effectively implement advanced midwifery care in the intrapartum setting. In this course, potential complications arising during normal birth are explored and care will be provided to women with these conditions. Further, common medical, surgical, and obstetric complications are explored in depth. Further, students evaluate patients and manage common obstetric complications. Skills to prevent and manage common obstetric complications and life threatening problems of childbearing women will be emphasized. Skills for immediate assessment, supportive management of the newborn, including physiological, psychosocial and pharmacologic interventions will be incorporated. Students will have the opportunity to become certified in neonatal resuscitation. Interprofessional simulations with the nurse-anesthesia students and BSN maternal and newborn nursing students will be coordinated throughout the course and clinical seminars to simulate actual patient scenarios with a focus on teamwork and communication.

**2 Credits****NSMW 0629 Integration to Nurse-Midwifery Practice****6 Credits****Prerequisites:** NSMW 0627, NSMW 0628.

As the final midwifery course, transition to midwifery practice fosters the incorporation of all previous classroom and clinical experiences in order to prepare the nurse midwife for practice upon graduation. This course enables students to provide full-scope midwifery care while still having the advantages of being a student. This course is a final synthesis of primary care, gynecology, antepartum, intrapartum, postpartum, and newborn care, and therefore builds on all previous knowledge and skills from coursework and clinical. Students utilize both theory and evidence-based research to drive care and treatment decisions in the clinical setting. They will become familiar with the responsibility inherent to their emerging role as a nurse-midwife. In the healthcare setting, students will collaborate with members of the healthcare team and display evidence based clinical practice. Within the health care team, midwifery clinical assessment and management skills across the reproductive lifespan into older age will be utilized. Students will safely conduct and deliver evidenced based primary care visits emphasizing disease prevention. They will manage gynecologic, family planning, antepartum, intrapartum, and postpartum healthcare visits creating individual treatment plans and attend deliveries in the intrapartum setting. They will manage the care of the newborn from birth through 28 days of life. Students will each have a variety of primary care and inpatient care setting, including optional global health settings (Nicaragua), as they are available. Evaluation and critique of care approaches of women throughout the lifespan and of newborns is highlighted throughout clinical practice. Emphasis is placed on thorough examination of the impact of psychosocial and environmental factors on healthcare services in women's health. Students must have successfully completed all other NSMW courses, clinics, and prerequisites prior to integration.

## **Operations Management (OM)**

**OM 0101 Operations Management****3 Credits****Prerequisites:** EC 0278 or MA 0017 or MA 0217; Sophomore standing.

This course provides the primary exposure to service and manufacturing operations management within the business core curriculum. Topics include process modeling, quality management and control, decision analysis, capacity planning, supply chain management, and project planning and control. Special attention is given to showing how concepts and models presented in lectures and readings apply to real-world business situations. Examples of international operations are studied, and ethical issues are explored within the context of decisions such as where to locate facilities.

**OM 0140 Project Management****3 Credits****Prerequisite:** EC 0278 or MA 0017 or MA 0217.

This course introduces students to project management and its role in business operations, with applications in such functional areas as accounting, finance, information systems, management, and marketing. Topics include the linkage between projects and organizational strategy, project planning and scheduling, project development and implementation, applying best practices and tools, evaluation methodologies and control techniques, and critical success factors. Special attention is given to showing how concepts and models presented in lectures and readings apply to real-world projects.

**OM 0400 Business Operations****3 Credits**

This course introduces basic concepts and tools relevant to operations and supply chain management, including process mapping, quality management, decision analysis, capacity planning, supply chain management, project management, and operations strategy. Case studies are used to link the concepts and models to real-world business applications.

**Peace and Justice Studies (PJ)****PJ 0298 Internship in Advocacy and Community Organizing** **3 Credits**

This internship provides students in the minor with the opportunity to understand, through direct participation, how citizens organize to empower their communities and promote policies that will benefit them. Interns are placed with community organizations in the greater Bridgeport area and some placements include advocacy work in the state legislator in Hartford. The internship requires a journal and final reflection paper based on analysis of the site experience and its relationship to peace and justice. Enrollment by permission only.

**PJ 0398 Capstone Research Seminar** **3 Credits**

This course creates a context for integrating and reflecting on experiences and knowledge acquired in the program by providing the students the opportunity to examine how their major connects to the values and practices of peace and justice. Students undertake a major research project focused on applying their practical engagement with peace and justice issues to broader theoretical frameworks with attention to contemplating a vision for change in the future. The course is built around student-led discussion and an in-depth research project that analyzes an issue from the student's major area of study through the lens of peace and justice.

**Philosophy (PH)****PH 0101 Introduction to Philosophy** **3 Credits**

This course is a topical introduction to philosophy. The aim of the course is to introduce students to the vocation of wonder and questioning by engaging students in discussions about some of the basic questions of philosophy. Students will read texts from historical and contemporary writers, and will be asked to develop their own skills of thinking, reading, and writing critically.

**PH 0200 Ancient Philosophy** **3 Credits****Prerequisite:** PH 0101.

In this course we will investigate how the earliest practitioners of Western philosophy conceived of their own activity. The word philosophy' stems from two ancient Greek words and means, literally, 'love of wisdom.' A lover of wisdom is one who pursues wisdom rather than possesses it; consequently, we can think of ancient philosophers as founding a history of inquiry into questions whose relevance for human beings ensures their persistence, questions like: What is the nature of the universe? What can be known? and What in any given situation is the right thing to do?

**PH 0201 Medieval and Renaissance Philosophy** **3 Credits****Prerequisite:** PH 0101.

This course will examine texts from representative thinkers from Augustine of Hippo in the period of the post-Constantinian Empire to Thomas More in the Renaissance, all sharing the new conception of philosophy. For Christians, as well as for Muslims and Jews, the enterprise of philosophy took on new motivation – the understanding of one's faith – and addressed new problems, not considered by the ancient Greeks and Romans.

**PH 0202 Modern Philosophy****3 Credits****Prerequisite:** PH 0101.

In light of the development and success of the new mechanistic science in the 17th and 18th centuries philosophers began to reexamine such fundamental philosophical topics as the nature of the human mind, the relationship between the mind and body, the source and scope of human knowledge, the existence of a divine being, and the source and nature of morality. In this course we will trace the development of philosophical thought in the writings of modern philosophers such as Bacon, Descartes, Spinoza, Leibniz, Locke, Berkeley Hume, Reid, and Kant.

**PH 0203 19th Century Philosophy****3 Credits****Prerequisite:** PH 0101.

This course examines the representative philosophers of the 19th century, notably Kant, Fichte, Schelling, Hegel, Schleiermacher, Schopenhauer, Nietzsche, Kierkegaard, and Marx.

**PH 0204 20th Century Philosophy****3 Credits****Prerequisite:** PH 0101.

This course presents a coherent picture of the main currents of contemporary philosophy in the Western and the non-Western tradition: phenomenology and existentialism, pragmatism and analytic philosophy, Marxism and dialectic materialism, and philosophy of history and culture.

**PH 0205 Ancient Medicine and Philosophy****3 Credits****Attributes:** HSTE Health Studies: Traditions, Delivery, and Ethics**Prerequisite:** PH 0101.

The various methods for investigating the human body have been subject to foundational questions of scientific investigation, religious sanction, social condemnation and philosophical impasse. In this class, we will look at the way in which Ancient Greek medical practitioners and philosophers took up these investigations, negotiated problems of method, and profoundly influenced the ways we talk about, think about and treat the body today.

**PH 0206 Philosophical Perspectives on Women in Classical Literature****3 Credits****Attributes:** WSGF Women, Gender, and Sexuality Studies: Gender Focused**Prerequisite:** PH 0101.

Ancient Greek and Latin literature presented its audience with a cast of characters who continue to enjoy social, political and cultural currency. Antigone and Oedipus, Helen and Paris, Cassandra and Prometheus have all had a hand in shaping western thought about the natures of beauty and freedom, the limits of human knowledge, and the role of law. In this course we will focus specifically upon the literary characterizations of women found throughout the ancient Greek and Latin worlds.

**PH 0209 Existentialism****3 Credits****Attributes:** FREN French Course Taught in English**Prerequisite:** PH 0101.

The word existentialism describes a particular attitude toward the creation of meaning out of an inherently meaningless existence. Despite the diversity within the tradition, the existentialists of the 19th and 20th century often address questions pertaining to human freedom and responsibility, values and nihilism, anguish and affirmation, authenticity, and the absurd. This course traces how existentialism has answered these questions. In so doing, students are encouraged to rethink the foundation of their own existence and personal values, while understanding the implications of Dostoyevsky's "If God is dead, then everything is permitted" and Sartre's "Man is condemned to be free."

<b>PH 0210 Phenomenology</b> <b>Attributes:</b> CAOT Catholic Studies: Non-Religious Studies <b>Prerequisite:</b> PH 0101.	<b>3 Credits</b>	<b>PH 0220 Philosophy of Religion</b> <b>Attributes:</b> CAOT Catholic Studies: Non-Religious Studies <b>Prerequisite:</b> PH 0101.	<b>3 Credits</b>
This course introduces students to phenomenology. Considered by many to be the most important theoretical movement of the 20th-Century, phenomenology is both a philosophical tradition and a method. From its founder Edmund Husserl to authors like Heidegger, Merleau-Ponty, Sartre, Derrida, and Levinas, to more recent voices in broader gender and race discussions, phenomenology still has significant influence today in existentialism, hermeneutics, and deconstruction. Students will engage in questions such as these: What is phenomenology? How is it practiced? What distinguishes this method from other approaches? What are its key contributions?		This course inquires into the nature of religion in general from the philosophical point of view. That is, it employs the tools of critical analysis and evaluation without a predisposition to defend or reject the claims of any particular religion.	
<b>PH 0215 Philosophy of Science</b> <b>Prerequisite:</b> PH 0101.	<b>3 Credits</b>	<b>PH 0221 The Question of Religion</b> <b>Attributes:</b> CARS Catholic Studies: Religious Studies <b>Prerequisite:</b> PH 0101.	<b>3 Credits</b>
Science and philosophy have always proceeded hand in hand, with the major figures in Western science being heavily influenced by the philosophy of their times and the major figures in Western philosophy heavily influenced by the science of their times. In this course we will explore the interconnections between philosophy and science. In doing so we will find some of the most deep, difficult, and fundamental questions there are, but with the "lens of science," so to speak, focusing these questions more sharply than they are often otherwise focused.		Nineteenth- and 20th-century continental philosophy calls into question the traditional understanding of religion, God, transcendence, incarnation, sacrifice, responsibility, evil, and ritual. This course explores the transformation of the traditional understanding of these ideas in the wake of thinkers such as Hegel, Kierkegaard, Nietzsche, Heidegger, Bataille, Lacan, Levinas, Girard, Nancy, Derrida, and Marion.	
<b>PH 0216 Philosophy and Biology of Evolutionary Theory</b> <b>Prerequisite:</b> PH 0101.	<b>3 Credits</b>	<b>PH 0222 Evil</b> <b>Prerequisite:</b> PH 0101.	<b>3 Credits</b>
This course explores the question of evolutionary theory from the perspectives of philosophy and biology. From the biological perspective, the course focuses on genetics, adaptive evolution, neutral evolution, the genetic impact of selection on populations, the origin and maintenance of genetic variation, the importance of development in evolution, the expression of variation, and coevolution. From the philosophical perspective, the course focuses on evolution as theory and ideology, the critique of the adaptationist program, evolution and contingency, typological versus population thinking, and the developmental systems critique.		This course explores the problem of evil from the perspectives of theology and philosophy. The course considers God and evil, classical theodicies (reasonable justifications of God before the prevalence of evil), modern philosophical accounts of evil, social evil, and the possibility of belief in the face of evil. Within the context of these subjects, the course addresses the following questions: What is evil? What are the roots of evil? What effect does an individual's understanding of evil have on his or her understanding of the human being, of God, and of religion? What is our responsibility in the face of evil?	
<b>PH 0217 Logic</b> <b>Prerequisite:</b> PH 0101.	<b>3 Credits</b>	<b>PH 0223 The Problem of God</b> <b>Attributes:</b> CAOT Catholic Studies: Non-Religious Studies <b>Prerequisite:</b> PH 0101.	<b>3 Credits</b>
This course provides a basic acquaintance with prevailing systems and methods of logic, notably traditional (Aristotelian) and modern (standard mathematical) logics.		This course studies the problem of the existence of God, including the metaphysical and epistemological issues entailed therein, as developed by such thinkers as Augustine, Anselm, Aquinas, Descartes, Hume, Spinoza, Kant, and Hartshorne.	
<b>PH 0218 Philosophy and Biochemistry of Food and Eating Practices</b> <b>Prerequisite:</b> PH 0101.	<b>3 Credits</b>	<b>PH 0230 Philosophy of Self and Subjectivity</b> <b>Prerequisite:</b> PH 0101.	<b>3 Credits</b>
An essential and necessary component of our daily lives, food offers itself as one of the most interesting topics of cultural and scientific discussion. This course is designed to analyze food and eating practices from the twofold perspective of philosophy and biochemistry. The intersections of philosophy and biochemistry will be highlighted in topics such as "Food as Art" (juxtaposing the aesthetic and biomolecular properties of food) and "Food in Culture" (contrasting how societies prepare and eat food with the nutrition and technology of food science). To accomplish our learning goals and spur lively discussions, we will combine a lecture with activities such as trips to farms, museums, American "terroirs", guest lectures, and in-class laboratory activities.		In 446 BCE the Greek poet Pindar, crafted this line: "What is someone? What is someone not? A person is the dream of a shadow." What does it mean to be a self or a subject? While most people would claim to know themselves, it is not always entirely clear what a 'self' is. This course examines the development and parameters of the self and subjectivity through the lens of major philosophical figures. First using a historical approach, then applying methods from contemporary schools of thought, the course investigates the self as both an anchor of security and source of complexity.	
<b>PH 0240 Introduction to Asian Philosophies</b> <b>Attributes:</b> WDIV World Diversity <b>Prerequisite:</b> PH 0101.	<b>3 Credits</b>	<b>PH 0240 Introduction to Asian Philosophies</b> <b>Attributes:</b> WDIV World Diversity <b>Prerequisite:</b> PH 0101.	<b>3 Credits</b>
		This course provides a philosophical overview of the major philosophical traditions that originate in India and China, including significant philosophical responses and contributions to them from throughout greater Asia. These traditions include, but are not limited to, Hinduism, Buddhism, Confucianism, and Daoism. Emphasis is given to philosophical exegesis of texts and practices; some comparison with Western traditions may also be included.	

<b>PH 0241 Confucianism</b>	<b>3 Credits</b>	<b>PH 0263 The Concept of Human Rights</b>	<b>3 Credits</b>
<b>Attributes:</b> WDIV World Diversity		<b>Prerequisite:</b> PH 0101.	
<b>Prerequisite:</b> PH 0101.		Bosnia, Somalia, Guatemala, the Holocaust: The notion of human rights and accusations of human rights violations are a constant presence in our political environment and in the formulation of U.S. foreign policy. This course follows the emergence of this concept from the political and ethical thought of the Greeks, to the Enlightenment, to the explicit formulation of "human rights" in the 20th century as a guiding principle of international relations.	
Confucianism is a reflective tradition that for over 2500 years has shaped social norms and moral values in East Asia. It underlies traditional political theory and religious practice and remains the template for social interactions. In this course we examine the Confucian tradition through its major figures and primary texts, from the Analects of Confucius (551-479 BCE) to the writings of contemporary Confucians. Emphasis is given to drawing out the philosophical content of Confucian thought by engaging both traditional commentaries and recent philosophical interpretations. We also assess the appropriateness of regarding certain practices and institutions as Confucian.			
<b>PH 0242 Philosophical Daoism and Zen Buddhism</b>	<b>3 Credits</b>	<b>PH 0264 Philosophy of Law</b>	<b>3 Credits</b>
<b>Attributes:</b> WDIV World Diversity		<b>Prerequisite:</b> PH 0101.	
<b>Prerequisite:</b> PH 0101.		This course examines the major questions of legal philosophy, the nature of legal rights and legal duties, the definition of law, and the grounds of legal authority.	
This course explores writings and philosophical influences of Daoism and Zen Buddhism in East Asia and in the West. The key philosophical themes covered are the related ideas of non-action (wuwei) and empty-mind (mushin). Emphasis is given to philosophical exegesis of these themes and their potential application to ideals of personal, moral, and professional integrity. The course includes reading and discussion of historical and contemporary texts. It may also involve exploratory, reflective engagement in Dao and Zen associated activities such as breathing meditation, T'ai Chi exercises, brush-calligraphy, haiku composition, or archery.			
<b>PH 0250 Ethical Theory</b>	<b>3 Credits</b>	<b>PH 0265 Philosophy and Economic Anthropology</b>	<b>3 Credits</b>
<b>Prerequisite:</b> PH 0101.		<b>Attributes:</b> PMMP Philosophy Major: Major Philosopher	
This course presents an in depth examination of how moral judgments are justified. The history of philosophy has led to a number of different theoretical frameworks that seek to set out methods for moral justification. We examine several of these methods and reflect upon how they support and/or contradict each other and what is at stake when moral systems conflict. In addition to examining the writings of philosophers such as Plato, Aristotle, Hobbes, Kant, Nietzsche, Mill, and Rawls, students will be asked to consider how these theoretical frameworks apply in actual cases.		<b>Prerequisite:</b> PH 0101.	
<b>PH 0251 Ethical Theories in America</b>	<b>3 Credits</b>	This course examines the economy from philosophical and anthropological perspectives. We will investigate why people produce and exchange things, why they seek to amass things in some circumstances and give them away in others, and how our modern understandings of value, debt, and rationality emerged.	
<b>Attributes:</b> ASPH American Studies: Philosophy, ASUP American Studies Upper Level		<b>PH 0270 Aesthetics</b>	<b>3 Credits</b>
<b>Prerequisite:</b> PH 0101.		<b>Prerequisite:</b> PH 0101.	
This course examines the growth and development of ethical theory in America. America's first philosophers, Jonathan Edwards, Benjamin Franklin, Thomas Jefferson, et al, distinguished their philosophies in terms of religious, political, and social values. This ethical stance became a tradition in America. The course examines this tradition in the writings of representative American philosophers.		The course examines aesthetic experience and concepts like imitation, expression, and psychic distance; considers the relationships among the various arts; and explores the role of art in life.	
<b>PH 0260 Social and Political Philosophy</b>	<b>3 Credits</b>	<b>PH 0271 Philosophy of Tragedy</b>	<b>3 Credits</b>
<b>Attributes:</b> BSAH Black Studies: Arts and Humanities, BSFC Black Studies Focus Course, PJST Peace and Justice Studies		<b>Prerequisite:</b> PH 0101.	
<b>Prerequisite:</b> PH 0101.		This course explores various works on tragedy by, for example, Plato, Aristotle, Hegel, Kierkegaard, Nietzsche, Freud, Heidegger, Lacan, Derrida, and Irigaray, which are read alongside various tragedies such as Sophocles' Oedipus the King and Antigone, and Shakespeare's Hamlet.	
This course analyzes the writings of leading social and political thinkers, with special consideration of the movements of protest and dissent.		<b>PH 0272 Philosophy of Film</b>	<b>3 Credits</b>
		<b>Prerequisite:</b> PH 0101.	
		Philosophy of film is one of the leading branches of philosophical aesthetics. While informed by and partly related to disciplines such as film studies, film theory, and film criticism, philosophy of film privileges a cognitive approach to the interpretation and study of film, an approach according to which film might be seen as doing philosophy per se, thus providing an original contribution to the overall philosophical panorama. The course begins with a critical overview of the most significant ontologies of film. Such a discussion is then followed, in the second and third units, by the exploration of issues pertaining to both the tradition of film studies and to the aforementioned cognitivist tradition. Among the issues considered, specific attention is given to the question of narrative, to emotions and film, and to the relation between fiction and nonfiction. A last unit will instead open the discussion to the relation between film and television and, more speculatively, to the future of film in the age of digital technologies.	
		<b>PH 0281 Philosophies of Love and Sex</b>	<b>3 Credits</b>
		<b>Attributes:</b> WSGF Women, Gender, and Sexuality Studies: Gender Focused	
		<b>Prerequisite:</b> PH 0101.	
		This course examines some of the major trends within traditional and feminist philosophies of love and sex. Possible topics include the nature of erotic love, the construction of sexual activity, and the social/political reality of pornography and prostitution.	

**PH 0282 Violence and the Sacred**

**Attributes:** PJST Peace and Justice Studies, WSGF Women, Gender, and Sexuality Studies: Gender Focused

**Prerequisite:** PH 0101.

Is religion essentially violent? How have religious principles been used to justify abuse? Who suffers the physical and spiritual effects of this hostility? What actions might we take in response to such suffering? This course examines the intersection of violence and the sacred, especially as it has emerged and been confronted within the Catholic/Christian tradition. Attention is paid to the works of both traditional and feminist philosophers. Possible topics include: child abuse, domestic violence, and racial violence.

**PH 0283 Philosophy and Pornography**

**3 Credits**

**Prerequisite:** PH 0101.

This course examines some of the major trends within traditional and feminist philosophies of pornography. Possible topics include the nature of pornography, the relationship between pornography and the construction of sexual desire, and the social/political consequences of pornography in our communities. Students must be at least 18 years of age.

**PH 0299 Special Topics (Shell)**

**3 Credits**

**Prerequisite:** PH 0101.

This course explores a specific topic in the discipline of philosophy, in an effort to deepen students' vocations of incessant questioning not only by exploring a specific thinker, question, or historical period, but also by further developing their own thinking, reading, and critical writing skills.

**PH 0300 Plato**

**3 Credits**

**Prerequisites:** Two courses in Philosophy.

This course covers central ontological and epistemological themes in selected early, middle, and late Platonic dialogues, paying particular attention to Plato's inclination to identify virtue with knowledge.

**PH 0301 Aristotle**

**3 Credits**

**Prerequisites:** Two courses in Philosophy.

This course introduces Aristotle through a selection of his works, exploring their relation to other works, their place in the scheme of the sciences, and thoroughly investigating their subject matter.

**PH 0304 Aquinas**

**3 Credits**

**Attributes:** ISIF Italian Studies: Italy-Focused

**Prerequisites:** Two courses in Philosophy.

This course focuses on Aquinas's most mature work, *Summa Theologiae*. This work exemplifies the Christian intellectual reaction to Islamic Aristotelianism, while at the same time bearing witness to Thomas's belief in the unity of truth. The course examines and analyzes such questions as the existence and intelligibility of God, the nature and powers of the human composite, human destiny, the human act, good and evil, providence and freedom, natural law, and the virtues.

**PH 0307 Descartes**

**3 Credits**

**Attributes:** FREN French Course Taught in English

**Prerequisites:** Two courses in Philosophy.

Three years after he finished college, Descartes got stuck in a snowstorm on his way to fight in a war. Alone in his room, he reflected on his education, coming to believe that many of the things he had been taught in college were pretty dubious. He also realized that he had believed many things all his life without giving thought to his reasons for believing them. He decided the best thing he could do was rid himself of all his old beliefs and then, relying only on his own mind, replace them with only those beliefs for which he could find good reasons. This course discusses the development and results of Descartes' search for truth.

**3 Credits**

**PH 0309 Leibniz**

**3 Credits**

**Prerequisites:** Two courses in Philosophy.

Can everything in the world be rationally explained? Even the existence of the world itself? G.W. Leibniz (1646-1716) thought so. Together with his understanding of the nature of truth, this led him to some startling conclusions, such as nothing causally interacts with anything else, everything internally reflects everything else, and even though evil exists this is the best of all possible worlds. In this course we examine these conclusions as well as Leibniz's theories about such puzzling topics as the nature of the mind, body, God, freedom, and space.

**PH 0310 Hume**

**3 Credits**

**Prerequisites:** Two courses in Philosophy.

This course offers an in-depth understanding of the philosophy of David Hume. Hume, one of the most interesting (and influential) of the 18th-century philosophers, made major contributions to our understanding of causation, morality, and the mind, to name just a few. Hume began with principles that seemed quite plausible but, taking these ideas to their logical conclusions, arrived at a philosophy that is, to say the least, surprising.

**PH 0311 Kant**

**3 Credits**

**Prerequisites:** Two courses in Philosophy.

Almost everyone recognizes that through experience the human mind is shaped by the world. Immanuel Kant, however, argued for the revolutionary claim that the world is shaped by the human mind. In developing this position Kant was led to formulate a radical view concerning the nature of space and time. It also led him to draw striking conclusions about our knowledge of ourselves, objects, causation, God, freedom, and immortality - conclusions that changed philosophy forever. In this class we will study Kant's revolution in philosophy.

**PH 0312 Hegel**

**3 Credits**

**Prerequisites:** Two courses in Philosophy.

The philosophy of G.W.F. Hegel, the most famous of the German idealists, directly spawned the philosophy of Karl Marx. Hegel is considered the father of existentialism and influenced contemporary schools of critical theory, continental philosophy, and post-structuralism. This course focuses on Hegel's most famous work, *Phenomenology of Spirit*. Students learn the mechanics of dialectical reasoning by examining Hegel's reflections upon time and space, perception, scientific reasoning, the concepts of life and death, the master-slave dialectic, and self-consciousness. The course works through this text in detail, and pays particularly close attention to how Hegel interprets the philosophy of Immanuel Kant.

**PH 0314 Nietzsche**

**3 Credits**

**Prerequisites:** Two courses in Philosophy.

This course deals with the thought of one of the leading philosophical figures of the 19th century, Friedrich Nietzsche. In terms of both style and content, Nietzsche was an innovator who called into question the traditional notions of science, systematic knowledge, ethics, and culture as such. The task of the course is to examine several themes central to Nietzsche's work, among them the will to power, the perspectival approach to truth, the concept of genealogy, the revaluation of values, eternal recurrence, and the death of God.

**PH 0316 Bergson**

**3 Credits**

**Attributes:** FREN French Course Taught in English

**Prerequisites:** Two courses in Philosophy.

This course explores the work of Henri Bergson (1859-1941). The course primarily takes the form of a close reading of *Time and Free Will* (1889), *Matter and Memory* (1911), and *The Two Sources of Morality and Religion* (1932). The course will also explore the influence of Bergson's work on contemporary philosophy, psychology, science, and religion.

<b>PH 0317 Heidegger</b>	<b>3 Credits</b>	<b>PH 0350 Advanced Topics in Ethics</b>	<b>3 Credits</b>
<b>Prerequisites:</b> Two courses in Philosophy.		<b>Prerequisites:</b> Two courses in Philosophy.	
This course explores the work of Martin Heidegger (1889-1976), one of the most influential philosophers of the 20th century. It primarily takes the form of a close reading of <i>Being and Time</i> (1927) and <i>The Origin of the Work of Art</i> (1936). The course hinges on Derrida's reading of Heidegger's existential analysis of death.		This course examines questions pertaining to the status and content of morality, such as the following. Are there universal moral truths, and what makes them true? Is morality objective, or is it constructed by communities or individuals? What makes an action right or wrong? What reasons do we have to be moral? This course examines competing answers to such questions and considers philosophical defenses of them.	
<b>PH 0320 Metaphysics</b>	<b>3 Credits</b>	<b>PH 0360 Critical Race Theory</b>	<b>3 Credits</b>
<b>Attributes:</b> CAOT Catholic Studies: Non-Religious Studies		<b>Attributes:</b> BSAH Black Studies: Arts and Humanities, BSFC Black Studies Focus Course, PJST Peace and Justice Studies, UDIV U.S. Diversity	
<b>Prerequisites:</b> Two previous courses in Philosophy.		<b>Prerequisites:</b> Two courses in Philosophy.	
This course concerns itself with being and our knowledge of being, developing in student minds an operative habit of viewing reality in its ultimate context.		Although race can be considered as one of several physical features of an individual, this course will investigate the recent research and literature in the field of Critical Race Theory that critiques this purely biological conception. For the purpose of understanding how race functions in our socio-political world, this body of work treats the concept as a social construction, drawing heavily on the phenomenological and existential traditions. Pertinent themes like lived experience, authenticity, and racial privilege will be explored using key texts (by Jean-Paul Sartre, Franz Fanon, Lewis Gordon, and Robert Bernasconi, to name a few).	
<b>PH 0321 Knowledge</b>	<b>3 Credits</b>	<b>PH 0370 Philosophy of Literature</b>	<b>3 Credits</b>
<b>Prerequisites:</b> Two courses in Philosophy.		<b>Prerequisites:</b> Two courses in Philosophy.	
The focus of this course is to examine the fundamental questions concerning human knowledge. For example: What is knowledge? Can I know anything? Do I know something because I can trace it back to some indubitable foundation or because it fits together with everything else like a piece of a jigsaw puzzle? Can I have knowledge without being able to say how I know it? Do men and women know things in different ways? Is knowledge something I can gain on my own or is knowledge essentially a social activity?		This course examines the philosophy "of" literature (the general nature of poetry and prose) and philosophy "in" literature (specific works that harbor philosophical ideas).	
<b>PH 0323 Philosophy of Mind</b>	<b>3 Credits</b>	<b>PH 0398 Independent Study</b>	<b>1-3 Credits</b>
<b>Prerequisites:</b> Two courses in Philosophy.		Upon request and by agreement with an individual professor in the department, a student may conduct a one-semester independent study on a specific philosophical topic. Prerequisite: two previous courses in Philosophy	
This course acquaints students with the most recent philosophical theories on the workings of the mind. Although it emphasizes philosophical theories of the mind, it also pays close attention to the philosophical implications of recent research in sciences such as psychology and neuroscience. This is an exciting topic; join us on this quest to address the Delphic dictum: Know Thyself!			
<b>PH 0331 Philosophy of Language</b>	<b>3 Credits</b>	<b>PH 0399 Capstone Experience</b>	<b>3 Credits</b>
<b>Prerequisites:</b> Two courses in Philosophy.		<b>Prerequisites:</b> Two courses in Philosophy.	
This course introduces the student to the philosophy of language: its themes, complexities and problems. Employing a historical approach, the course surveys key philosophers who investigate the meaning, source and structure of language. Typically their primary question investigates various ways that the human person, while immersed within a context, understands language. After a brief investigation of ancient and medieval thinkers, the course focuses on a number of modern and contemporary figures who represent the mainstream discussion of the philosophy of language, including representatives of both analytic and continental traditions.		This course is the culminating experience in a student's study of philosophy at Fairfield University. Students will be asked to reflect on their philosophical writings and activities over the course of their study, to synthesize and expand a selection of these, to critically and collegially engage with other students for the mutual improvement of their philosophical projects, and to prepare for a philosophical life after graduation regardless of their career choices. Enrollment by permission only.	
<b>PH 0340 Critical Theory</b>	<b>3 Credits</b>	<b>Physics (PS)</b>	
<b>Prerequisite:</b> PH 0101.		<b>PS 0071 Physics of Light and Color</b>	<b>3 Credits</b>
This course examines the 20th century philosophical movement of cultural critique arising out of the association of German Jewish scholars known as the Frankfurt School. Central problems within this movement include the persistence of violence within human reason, the various forms and forces of ideology, the relation of political activity to artistic activity, the proper undertaking of immanent social critique, and the possibility of freedom in societies that are increasingly authoritarian. Representative thinkers within this field include Theodor Adorno, Max Horkheimer, Herbert Marcuse, Erich Fromm, and Walter Benjamin.		<b>Attributes:</b> EDCG Educational Studies Cognate	
Previously PH 0212.		This course, intended for students who are not majoring in the physical sciences, covers the particle-wave duality of light and the relationship of light to other electromagnetic waves. Additional topics include polarization, vision, color and the perception of color, optical phenomena in nature and in biological systems, color and light in art, simple optical instruments, sources of light and their spectra, lasers, and holography.	

<b>PS 0076 Physics of Sound and Music</b>	<b>3 Credits</b>	<b>PS 0093 Energy and Environment</b>	<b>3 Credits</b>
<b>Attributes:</b> EDCG Educational Studies Cognate		<b>Attributes:</b> EDCG Educational Studies Cognate, EVME Environmental Studies Major Elective, EVNS Environmental Studies: Natural Science, EVPE Environmental Studies Elective	
Designed for the non-science major, this course examines the physical principles in the production of sound, with an emphasis on sound produced by musical instruments. Topics include the nature of wave motion as produced by vibrating strings and organ pipes, harmonic content, musical scales and intervals, and the mechanism of the hearing process. The course applies concepts to the construction and characteristics of musical instruments and to the design of auditoriums and concert halls.		This course introduces students not majoring in the natural sciences to topics relating to work, energy, and power, and explores many of the environmental consequences resulting from our use of energy. The course examines the finite nature of fossil fuels as well as many alternative energy sources including solar energy; wind, tidal, and geothermal energy; nuclear fission; and nuclear fusion. Students use arithmetic and simple algebra.	
<b>PS 0077 Science and Technology of War and Peace: The Way Things Work</b>	<b>3 Credits</b>	<b>PS 0115 General Physics I</b>	<b>3 Credits</b>
<b>Attributes:</b> EDCG Educational Studies Cognate		<b>Prerequisite:</b> MA 0145 or higher (concurrency allowed).	
Designed for the non-science major, this course includes critical discussion and descriptive exposition of the swords and plowshares dilemma, of the concept that science and technology have been used to build up - and tear down - civilization, and of the forces of civilization driving and being driven by the dual nature of our technological heritage. The course begins with the first lever and club and ends with laser surgery and Star-Wars lasers, taking a historical and a thematic approach where appropriate. The course describes, in the simplest terms, the way important real devices (television, telephones, lasers, gas turbines, thermonuclear weapons, etc.) work, examining their illustration of and limitations by scientific principles at a qualitative level. The course also considers the technical future from a past, present, and future perspective, asking: What can, could, didn't, might, and can we not do? The course illustrates the moral and ethical implications of science where appropriate. Knowledge of no more than high school algebra is required.		This introductory course - for students concentrating in physics, mathematics, chemistry, or engineering - covers mechanics, heat, and fluid dynamics. It also includes rigorous mathematical derivations using integral and differential calculus. Topics include velocity and acceleration, Newton's laws of motion, work, energy, power momentum, torque, vibratory motion, elastic properties of solids, fluids at rest and in motion, properties of gases, measurement and transfer of heat, and elementary thermodynamics.	
<b>PS 0078 The Nature of the Universe</b>	<b>3 Credits</b>	<b>PS 0115L General Physics I Lab</b>	<b>1 Credit</b>
This course, intended for non-science majors, reviews the scientific field of cosmology, or the nature of the physical universe, from a historical perspective. Beginning with the ancients, the course traces the development of cosmological principles through the Greek and Egyptian era of Aristotle, C. Ptolemy, and others; the 16th and 17th centuries of Copernicus, Galileo, and Newton; and the cosmology of the 20th century based upon Einstein's theories of relativity coupled with several fundamental observations. This leads to an examination of the current model of the universe, which is based upon the Big Bang theory.		<b>Fee:</b> \$60 Science Lab Fee	
<b>PS 0087 Fundamentals of Astronomy</b>	<b>3 Credits</b>	<b>Corequisite:</b> PS 0115.	
This course introduces students who are not majoring in science to the principal areas, traditional and contemporary, of astronomy. Traditional topics include a historical background to astronomy, telescopes, the sun, the moon, the major and minor planets, comets, and meteors. After discussing these subjects in detail, the course covers areas appropriate to modern astronomy such as the composition and evolution of stars, star clusters, quasars, pulsars, black holes, and cosmological models.		This lab course engages students in experimental measurements spanning the areas of mechanics and thermal stresses on matter, with the objective of training students in experimental measurements, data manipulation and analysis, error analysis, deductive thinking, and instrumentation, providing depth to students' understanding of the phenomena taught in PS 115. Specific experimental measurements include accelerated motion, periodic motion, gravitational force, ballistics, conservation of energy and momentum, rotational dynamics, and measurements of the coefficient of linear expansion and the heat of fusion. Students complete a weekly lab report.	
<b>PS 0089 Physics of Sport</b>	<b>3 Credits</b>	<b>PS 0116 General Physics II</b>	<b>3 Credits</b>
<b>Attributes:</b> EDCG Educational Studies Cognate		<b>Prerequisites:</b> MA 0146 or higher (concurrency allowed); PS 0115.	
This course introduces concepts from science, particularly physics, by using illustrations from a wide variety of sports. For example, it explains why a baseball curves, why gears work on a bike, the speeds obtainable by a windsurfer or skier or tennis ball or arrow, how scuba divers survive, and a wide variety of other sports phenomena from football, golf, skiing, climbing, sailing, skating, baseball, scuba, fishing, sky-diving and so forth. The association of sports with motion, forces, and energy is explained by scientific reasoning and analysis. The course includes a small laboratory/experiential component that illustrates the scientific method, where various examples of sports are made quantitative, using readily available equipment.		This continuation of PS 0115 covers electricity and magnetism, light and optics, and sound. Topics include magnetism and electricity; simple electric circuits; electrical instruments; generators and motors; characteristics of wave motion; light and illumination; reflection; refraction, interference; polarization of light, color, and the spectrum; and production and detection of sound waves.	
<b>PS 0116L General Physics II Lab</b>		<b>PS 0116L General Physics II Lab</b>	<b>1 Credit</b>
<b>Fee:</b> \$60 Science Lab Fee		<b>Fee:</b> \$60 Science Lab Fee	
<b>Corequisite:</b> PS 0116.		<b>Corequisite:</b> PS 0116.	
		This laboratory provides students with a greater understanding of electromagnetic phenomena, wave phenomena, and optics, and supports PS 116. Measurements of microscopic quantities, like the charge and mass of the electron, give students an opportunity to explore the structure of matter. Other experiments involve the physics of electrical currents, electric properties of bulk matter, magnetic fields and their effect on beams, wave phenomena, and the nature of light and its interaction with optical materials. This course trains students in experimental measurements, data manipulation and analysis, error analysis, deductive thinking, and instrumentation. Students complete a weekly lab report.	

<b>PS 0204L Modern Experimental Methods Lab</b>	<b>2 Credits</b>	<b>PS 0222 Modern Optics</b>	<b>3 Credits</b>
<b>Fee:</b> \$60 Science Lab Fee		<b>Corequisite:</b> PS 0206L.	
<b>Prerequisite:</b> PS 0285.		<b>Prerequisite:</b> PS 0285.	
This course offers lab experience in modern experimental methods and techniques. It involves lab investigation of fundamental concepts in modern physics including atomic, nuclear, solid-state, X-ray, acoustic, superconductivity, and quantum physics. Lab procedures emphasize hands-on work with basic experimental equipment such as vacuum systems, power supplies, electronics and instrumentation, detectors, diagnostic techniques, computer interfaces, data acquisition and control, hardware and software, etc. This lab course gives students maximum opportunity to work on their own with minimum supervision.		Starting with a review of electromagnetic wave theory and the differential wave equation, this course covers the propagation of light from a scattering and an electromagnetic wave phenomena point of view. The course investigates superposition, polarization, interference, and diffraction in detail and discusses the photon theory of light along with the photoelectric effect. The course covers the basic theory of coherence with its contemporary application to lasers and additional selected topics in applied optical devices, stressing the application of theory to devices and observations.	
<b>PS 0206L Modern Optics Lab</b>	<b>1 Credit</b>	<b>PS 0226 Classical Mechanics</b>	<b>3 Credits</b>
<b>Fee:</b> \$60 Science Lab Fee		<b>Prerequisites:</b> PS 0115, PS 0116.	
<b>Prerequisite:</b> PS 0222 (concurrency allowed).		The formulation of classical mechanics represents a major milestone in our intellectual and technological history as the first mathematical abstraction of physical theory from empirical observations. This achievement is rightly accorded to Isaac Newton, who first translated the interpretation of various physical observations into a compact mathematical theory. More than three centuries of experience indicate that mechanical behavior in the everyday domain can be understood from Newton's theories. Topics in this course include elementary dynamics in one and two dimensions, gravitational forces and potentials, free and forced harmonic oscillations, central fields and the motions of planets and satellites, Lagrange's and Hamilton's equations, small oscillations, and normal mode analysis.	
<b>PS 0212 Circuit Analysis and Analog Systems</b>	<b>3 Credits</b>	<b>PS 0241 Thermal and Statistical Physics</b>	<b>3 Credits</b>
<b>Corequisite:</b> PS 0212L.		<b>Prerequisite:</b> PS 0285.	
<b>Prerequisites:</b> PS 0115, PS 0116.		Thermodynamics, viewed primarily as the science that deals with energy transformations and the relationships between properties of systems, is a fairly modern science. As its name implies, thermodynamics deals with heat and power; originally, this now broad subject dealt almost exclusively with heat engines. This course begins with a review of the three fundamental laws of thermodynamics. Additional topics include the kinetic theory of gasses and modern statistical mechanics.	
<b>PS 0212L Circuit Analysis and Analog Systems Lab</b>	<b>1 Credit</b>	<b>PS 0255 Introduction to Astrophysics</b>	<b>3 Credits</b>
<b>Fee:</b> \$60 Science Lab Fee		<b>Prerequisite:</b> PS 0285.	
<b>Corequisite:</b> PS 0212.		This course is an introduction to modern astronomy and astrophysics. Starting from basic physical principles, we will begin with a number of practical problems in observational astronomy: the location of stars in the sky, optical telescopes and detectors, and measuring the brightness of stars and galaxies. From here, we will go on to discuss the formation, evolution, and death of stars and how these astronomical processes have influenced the world around us. Finally, we will end with a discussion of cosmological evolution from the big bang onward.	
<b>PS 0215 Computational Physics</b>	<b>3 Credits</b>	<b>PS 0260 Introduction to Biomedical Optics</b>	<b>3 Credits</b>
<b>Prerequisites:</b> PS 0115, PS 0116.		<b>Corequisite:</b> MA 0251.	
In this course students will learn numerical methods to solve scientific problems and to integrate the use of the computer into their research. The course will cover numerical methods to solve integrals, differential equations, partial differential equations, systems of linear equations, and to model random processes. Problems that will be solved in this class include: Laplace equation, chaotic pendulum, Schrodinger's equation, and magnetic and electric field calculations. The programming languages that will be used in this course are high level languages, such as C and C++, whose basic syntax will be taught in class.		<b>Prerequisite:</b> PS 0116.	
		This Introduction to Biomedical Optics course provides an opportunity for students to be introduced to an exciting area in biophotonics. It would introduce students to some of the optical methods in non-invasive medical diagnostics and imaging. Students would learn about basics of tissue optics, elastic scattering, absorption, fluorescence and Raman spectroscopies, and photon transport in random media, Monte Carlo simulations, microscopy, ultrafast lasers and detection systems. Applications would include non-invasive detection of cancer, atherosclerosis, and optical tomography.	

**PS 0271 Electricity and Magnetism I****3 Credits****Prerequisites:** PS 0115, PS 0116, MA 0251.

This lecture course covers the foundations of electric and magnetic phenomena. Topics include electrostatics and the concepts of the electric field, flux, and potential; Coulomb's law and Gauss's law and their applications; vector and scalar fields and vector operators; electric energy of systems of charges; dipole fields and Laplace's equation; moving charges and currents; Ampere's law; and magnetic fields and forces.

**PS 0285 Modern Physics****3 Credits****Corequisite:** MA 0245.**Prerequisites:** PS 0115, PS 0116.

This course introduces modern physics, i.e., the physics of the 20th century. The basic ideas that led to the formulation of quantum mechanics together with Einstein's theories of relativity provided a means to explore many new aspects of the physical world. This course examines the discovery of quanta of energy; Einstein's Special Theory of Relativity; the Bohr model of the atom; wave mechanics, angular momentum, and spin; various aspects of quantum mechanics that explain much of the subatomic world; and aspects of atomic and nuclear physics including solid-state physics and superconductivity. The course also examines several of the major experimental observations that support and confirm these new theories.

**PS 0371 Electricity and Magnetism II****3 Credits****Prerequisite:** PS 0271.

This lecture course is a continuation of PS 0271, covering additional topics in electric and magnetic phenomena. Topics include Faraday's laws and induced electromotive force; electric and magnetic fields in matter; methods of solving boundary value problems; Maxwell's equations in integral and differential form; electromagnetic radiation and wave propagation; and Einstein's Special Theory of Relativity for electrodynamics.

**PS 0386 Quantum Physics****3 Credits****Prerequisites:** MA 0331, PS 0226, PS 0285.

This course introduces students to the physical concepts and mathematical formulations of nonrelativistic quantum mechanics. Topics include the Schrodinger wave equation, Fourier techniques and expectation values, operator formalism, angular momentum, central forces, matrix representations, and approximation methods.

**PS 0387 Introduction to Condensed Matter****3 Credits****Prerequisite:** PS 0386.

Condensed matter physics is the study of the condensed phases of matter where atoms and molecules interact strongly and bind together to form solids and fluids governed by the laws of electromagnetism, quantum mechanics, and statistical physics. Condensed matter research forms the largest area of research in physics with applications in chemistry, photonics, semiconductor and material science, and nanotechnology. Students will be introduced to several topics including crystal structure, crystal binding, thermal properties based on quantized vibrations (phonons), free-electron Fermi-gas, origin of the energy bands, semi-conductor crystals and superconductivity.

**PS 0388 Elementary Particles and Nuclear Physics****3 Credits****Prerequisite:** PS 0386.

This course begins with a review of elementary particles, their properties and classification, and their nuclear and electromagnetic interactions. It proceeds with the study of bound nuclear systems, conditions for nuclear stability, and radioactive decay modes. The course concludes with an examination of particle accelerators and other nuclear experimental facilities.

**PS 0390 Special Topics (Shell)****3 Credits****Prerequisites:** PS 0115, PS 0116, PS 0285.

This course covers the following content: condensed matter physics, numerical analysis and computational physics, and wave phenomena and quantum phenomena. Condensed matter topics include mechanical, thermal, and electric properties of matter; magnetism; superconductivity; and magnetic resonance. Topics in numerical analysis and computational physics include solutions of differential equations, boundary value and eigenvalue problems, special functions and Gaussian quadrature, and matrix operations. Topics in wave phenomena include electric and mechanical oscillators, coupled oscillators, transverse and longitudinal waves, waves on transmission lines, and electromagnetic waves. Quantum phenomena include advanced topics in quantum mechanics with applications in the structure of nuclei, atoms, molecules, metals, crystal lattices, semiconductors, and superconductors.

**PS 0391 Theoretical/Experimental Capstone****1-4 Credits**

This course provides opportunities for intensive investigation, experimental or theoretical, of selected topics at an advanced level under the guidance of a faculty member. Participation in this course is required of all seniors. Credit by arrangement.

**PS 0392 Theoretical/Experimental Capstone****1-4 Credits**

This course provides opportunities for intensive investigation, experimental or theoretical, of selected topics at an advanced level under the guidance of a faculty member. Participation in this course is required of all seniors. Credit by arrangement.

**PS 0399 Independent Study****1 or 2 Credits**

This course provides opportunities to physics majors in their junior year, and to sophomores by permission of the department Chair, to pursue independent studies in selected areas of physics, under the mentorship of a faculty member. The course aims to guide students in using the methods of scientific inquiry to explore subjects in an area of mutual interest to the student and teacher. In the process, students will get personal attention and hands-on experience, and will develop further their analytical and experimental skills.

## **Politics (PO)**

**PO 0101 Introduction to American Politics****3 Credits****Attributes:** ASGW American Studies: Gateway, ASPO American Studies: Politics, PMAP Politics Major: American Politics

Students examine the American political system and the American political culture; consider the major political institutions in relation to policy perspectives; examine the ability of the political system to deal with societal problems; and analyze proposals for reform of the political system. Previously PO 0011.

**PO 0102 Introduction to Comparative Politics****3 Credits****Attributes:** PMCP Politics Major: Comparative Politics, WDIV World Diversity

This course introduces students to the concepts and theories used to understand the structures and processes of diverse political systems. Comparing similarities and differences between different political systems will enable students to identify interesting questions about politics in specific countries, and to make systematic comparisons across countries. Previously PO 0012.

**PO 0103 Introduction to Political Ideas That Shape the World 3 Credits****Attributes:** PMPT Politics Major: Political Theory

This course introduces students to the field of Western political theory. It analyzes the liberal political theories of Thomas Hobbes, Jean-Jacques Rousseau, John Locke, J.S. Mill, and Karl Marx, and compares and contrasts them to a variety of communitarian, socialist, and anarchist political theories. Previously PO 0014.

**PO 0104 Introduction to International Relations 3 Credits****Attributes:** HACA Humanitarian Action Minor Context Course, PJST Peace and Justice Studies

This course introduces International Relations (IR) theories to students, providing concepts, frameworks and approaches that will help them make sense of global politics historically and today in a systematic and critical manner. The goal of the course is to familiarize students with these tools and to help them use them to understand and address challenges at a global scale, particularly different manifestations of violence, development and social injustice, including from war to economic, social, gendered, and political marginalization. Previously PO 0130.

**PO 0201 Introduction to Peace and Justice 3 Credits****Attributes:** ASGW American Studies: Gateway, ASPO American Studies: Politics, CAOT Catholic Studies: Non-Religious Studies, EDCG Educational Studies Cognate, PJST Peace and Justice Studies, PMAP Politics Major: American Politics

This course introduces students to the concepts of peace and justice, the connections between them, and the relationship of these concepts to the idea of faith. The course focuses on case studies beginning with an analysis of the crisis of America's cities and finds the causes in de-industrialization and its resulting poverty. In both cases, the course views poverty as the effect of unjust economic and social structures including exaggerated military budgets at home and the militarization of developing countries. Examining these fundamental problems in peace and justice, according to the principles of Marxism, liberalism, and Catholicism, provides a theoretical basis for the study. Each of these traditions has its own perspective for understanding these problems and for responding to them. In this way the course provides an awareness of the major problems in peace and justice as well as an understanding of the different ways to think about them. Previously PO 0115.

**PO 0202 Urban Politics 3 Credits****Attributes:** ASPO American Studies: Politics, PMAP Politics Major: American Politics

This course examines structures and processes of urban politics and considers the major participants and policy areas of urban political processes. It sets the evolution of urban areas in historical perspective, discusses major contemporary problems, and analyzes alternative solutions. Previously PO 0150.

**PO 0203 Public Administration 3 Credits****Attributes:** ASPO American Studies: Politics, PMAP Politics Major: American Politics

The course focuses on the role of the bureaucracy within the political process, examining the problems of efficiency and accountability, and studying the classic models of bureaucratic organization and function in juxtaposition to the reality of bureaucratic operation. It analyzes proposed reforms to determine the viability of change. Previously PO 0155.

**PO 0204 American Presidency 3 Credits****Attributes:** ASGW American Studies: Gateway, ASPO American Studies: Politics, ASUP American Studies Upper Level, PMAP Politics Major: American Politics

The course will examine the expansion of presidential powers by 20th and 21st century modern presidents, focusing on the constitutional and political development in the President's role as chief executive, legislative leader, and administrative head of state. It will also explore and seek explanations for differences and patterns among presidents in their foreign and domestic policy success, evaluating changes in the recruitment process (primaries, conventions, and elections), issues of psychology, race, religion, economic forces, political parties, 'political time,' and media. Previously PO 0161.

**PO 0205 United States Congress 3 Credits****Attributes:** ASPO American Studies: Politics, ASUP American Studies Upper Level, PMAP Politics Major: American Politics

This course firstly examines the development of rules, procedures, and structures of Congress as the foremost institution of representation within American democracy, exploring its place in contemporary American politics and its often contentious relationship with the other branches of national government, the Presidency and Courts. It will also introduce some primary theoretical approaches to the study of Congress as a deliberative body designed to produce national policy outcomes. Finally, it will develop students' understanding of individual members of Congress: their relationship to constituents, their differing styles of representation, and the effects of race, gender, ideology, and money on their legislative work. Previously PO 0162.

**PO 0206 Supreme Court I 3 Credits****Attributes:** ASPO American Studies: Politics, ASUP American Studies Upper Level, PMAP Politics Major: American Politics

This examination of the politics of the Supreme Court analyzes the relationship between the Court and the remainder of the political system; examines the Court's treatment of government power including commerce clause, taxing power, and relations between the branches; and emphasizes the political consequences of Court decisions. Previously PO 0163.

**PO 0207 Supreme Court II 3 Credits****Attributes:** ASPO American Studies: Politics, ASUP American Studies Upper Level, PMAP Politics Major: American Politics

This examination of the individual and the Court pays direct attention to Supreme Court decisions regarding civil liberties, including freedoms of speech, press, religion, and assembly. It also examines the rights of accused persons and the 14th amendment equal protection, emphasizing the political implications of these decisions as well as the political environment in which the Court functions. Previously PO 0164.

**PO 0208 Political Parties and Interest Groups 3 Credits****Attributes:** ASPO American Studies: Politics, ASUP American Studies Upper Level, BSCC Black Studies Component Course, BSSS Black Studies: Social and Behavioral Sciences, PMAP Politics Major: American Politics, UDIV U.S. Diversity

This course examines various linkage models that describe representation of citizens by leaders. Moreover, it examines political parties, interest groups, and public opinion in terms of their contributions to popular control of American politics. What mechanisms do citizens have to gain compliance for their policy preferences? How responsive are decision makers in the American system to citizens' demands? The course considers these and other questions. Previously PO 0165.

<b>PO 0209 American Public Policy</b>	<b>3 Credits</b>	<b>PO 0215 Campaigns and Elections</b>	<b>3 Credits</b>
<b>Attributes:</b> ASPO American Studies: Politics, ASUP American Studies Upper Level, PMAP Politics Major: American Politics		<b>Attributes:</b> PMAP Politics Major: American Politics	
This course examines the policy process in the United States by assessing a variety of contemporary policy issues. Students investigate different policy domains to uncover the politics and societal myths affecting different stages of the complicated policy process, paying special attention to people and institutions that formally and informally influence public policy in the United States, including media, elected officials, bureaucrats, consumers, private citizens, workers, political activists, corporations, interest groups, lobbyists, and political parties. Previously PO 0166.		In a democratic political system, elections are the means by which the transition of power occurs. Thus, understanding the nature of American elections and campaigns is necessary to understand our political system. This class focuses on American elections: discussing how the actions of the players influence outcomes, the behavior of voters, the politics of election administration, and the laws that govern the rules to the game. We will observe and analyze both empirical research and the reality of campaigns today as both have significant implications for our democracy. Previously PO 0173.	
<b>PO 0211 Media and Politics</b>	<b>3 Credits</b>	<b>PO 0231 21st Century Power Politics</b>	<b>3 Credits</b>
<b>Attributes:</b> ASPO American Studies: Politics, PMAP Politics Major: American Politics		<b>Attributes:</b> PMPT Politics Major: Political Theory	
This course examines the impact of the media on the American political system and, conversely, how government attempts to influence the media for its purposes, and implications of the electronic media for a democratic and informed society. The course pays close attention to the media's impact on national elections and analyzes the media as an agent of political socialization. Previously PO 0167.		How does power operate in the 21st century? This course engages this question by focusing on how contemporary thinkers from the Global North and South assess the world in which we live. The course will take on issues of globalization, democratization, cosmopolitanism, poverty, race, gender, citizenship, and environmentalism. The work of key thinkers such as Karl Marx, Hannah Arendt, Franz Fanon, Julius Nyerere, Michel Foucault, Kwame Anthony Appiah, Judith Butler, and Wendy Brown will be examined. These theorists present a critical assessment of the nature and value of contemporary society's cherished ideals of social and economic progress, secularization, and scientific reason, and individual autonomy and liberty. This course explores and evaluates these controversial critiques of life that shape our understanding power in the 21st century. Previously PO 0112.	
<b>PO 0212 United States Environmental Politics and Policy</b>	<b>3 Credits</b>	<b>PO 0232 Utopian Politics</b>	<b>3 Credits</b>
<b>Attributes:</b> ASPO American Studies: Politics, ASUP American Studies Upper Level, EVME Environmental Studies Major Elective, EVPE Environmental Studies Elective, EVSS Environmental Studies: Social Science, PMAP Politics Major: American Politics		<b>Attributes:</b> PMPT Politics Major: Political Theory	
This course introduces students to the processes, actors, causal factors, and theoretical approaches central to the creation and implementation of US environmental policy. The first section examines the history of US environmental politics, the policy process, and prominent theories that seek to explain that process. The second examines the role of key institutions, including the President, Congress, courts, federal agencies, environmental groups, and corporations. The third section examines key current issues, including risk assessments, economic tools, air and water pollution, toxic chemicals, public lands endangered species, water shortages, and climate change. Previously PO 0169.		This course examines the nature and function of utopian thinking and utopian communities. What is the value of utopian reflection? What forms of critical thinking and imaginative speculation does it enable? What are the limits to or dangers of utopian thought and practice? What kinds of challenges do utopian communities face? This course explores and critically assesses utopian, and dystopian themes from utopian fiction, political theory, science fiction, and popular culture. The course involves students in building model utopias that resolve major world problems. Previously PO 0116.	
<b>PO 0213 State and Local Politics</b>	<b>3 Credits</b>	<b>PO 0233 American Political Thought</b>	<b>3 Credits</b>
<b>Attributes:</b> PMAP Politics Major: American Politics		<b>Attributes:</b> ASGW American Studies: Gateway, ASPO American Studies: Politics, PMPT Politics Major: Political Theory	
This course examines the role of state and local governments within the United States. State and local governments are unique subnational governments with their own political culture and identity and very greatly within and across the American political system. This course explores the political processes and the institutions of state and local governments. The course highlights the multifaceted, and often difficult, issues facing sub-national governments; the philosophies of state and local governments; their responsibility and function regarding election administration and voting; and their role within the larger national government. Previously PO 0171.		This course considers the philosophical roots of American political thought and the influence of the American revolutionaries, constitution-makers, Federalists, Jeffersonians, Jacksonians, Alexis de Tocqueville, examiners of the welfare state, pragmatists, and new frontiersmen on the contemporary American mind and institutions. The course also covers challenges and reform of the American political system within the scope of political science through an application of the concepts of human nature, idealism, constitutional power, and nationalism. Previously PO 0118.	
<b>PO 0214 Public Opinion and Polling</b>	<b>3 Credits</b>	<b>PO 0234 Sex, Sexuality, and Gender</b>	<b>3 Credits</b>
<b>Attributes:</b> PMAP Politics Major: American Politics		<b>Attributes:</b> ASGW American Studies: Gateway, ASPO American Studies: Politics, PJST Peace and Justice Studies, UDIV U.S. Diversity, WSGF Women, Gender, and Sexuality Studies: Gender Focused	
A central feature to American democracy is that the public must play an active role in governing. This course invites students to think about and reflect on the role of public opinion, the tools used to measure it, and its impact on policies and elections, in American democracy. Students will examine what public opinion is, publics' knowledge of politics, how citizens are socialized politically, group differences in public opinions, and various methods employed to measure public opinion. By the end of the course, students will be able to determine when and how public opinion influences various aspects of American politics. Previously PO 0172.		This course focuses on how men and women ally together and separately to alter the landscape of sex, sexuality, and gender in the U.S. as part of a global wave of political change. The course examines how race, class, religion, age, disability, and other identity variables intersect with male and female, masculine and feminine, and the full range of sexualities in order to understand the theories and practices related to identity that shape twenty-first century politics. Previously PO 0119.	

**PO 0235 Modern Political Ideologies****3 Credits**

**Attributes:** ISIC Italian Studies: Italy Component, PJST Peace and Justice Studies, PMPT Politics Major: Political Theory

This course primarily examines the political belief systems in the United States including conservatism, liberalism, democratic socialism, and the idea of industrial policy. It analyzes these "isms" with reference to democracy's ability to deal with the contemporary problems of American society. It also explores Marxism in terms of the basic political and economic ideas of Marx and Engels as well as the modifications made in their system by Lenin; discusses the basic concepts of racism; and briefly analyzes the meaning of totalitarianism. Previously PO 0123.

**PO 0236 Politics of Race, Class, and Gender****3 Credits**

**Attributes:** ASGW American Studies: Gateway, ASPO American Studies: Politics, BSCC Black Studies Component Course, BSSS Black Studies: Social and Behavioral Sciences, PJST Peace and Justice Studies, PMPT Politics Major: Political Theory, UDIV U.S. Diversity, WSGF Women, Gender, and Sexuality Studies: Gender Focused

This course investigates how race, class, and gender function in American political culture. Students explore how the theoretical ideas of central thinkers such as Thomas Jefferson, Martin Luther King Jr., and Susan B. Anthony shape the political practices of the people who express themselves in songs, speeches, art, and music. The focus on race, class, and gender enables students to engage with historically challenging questions about equality, freedom, individualism, republicanism, liberalism, and American exceptionalism from alternative perspectives. The course does so by assessing whether or not the contemporary Hip Hop movement can overcome the barriers of race, class, and gender. Previously PO 0153.

**PO 0250 European Politics and the European Union****3 Credits**

**Attributes:** ISIC Italian Studies: Italy Component, ISIF Italian Studies: Italy Focused, PMCP Politics Major: Comparative Politics

This analysis of political institutions and dynamics of Great Britain, France, Germany, and Italy emphasizes the relationship between the political culture and the political system and analyzes alternate methods of dealing with societal problems. Previously PO 0139.

**PO 0251 Islam and Muslim Politics****3 Credits**

**Attributes:** PMCP Politics Major: Comparative Politics, WDIV World Diversity

Islam is most often treated as a monolithic force when in fact the relationship between Islam, politics, and society is varied and dynamic. The aim of this course is to introduce students to the pluralism of Islam-influenced practices (such as in politics, education, charitable aid, and business) drawing on examples from Turkey, Indonesia, Central Asia, and China. Previously PO 0140.

**PO 0252 African Politics****3 Credits**

**Attributes:** BSFC Black Studies Focus Course, BSSS Black Studies: Social and Behavioral Sciences, HACA Humanitarian Action Minor Context Course, PMCP Politics Major: Comparative Politics, WDIV World Diversity

This course examines political patterns in Africa with an emphasis on the relationships between politics and culture, and politics and economy. Themes and concepts, not country studies, structure the course, which extracts patterns that are universal or typical in sub-Saharan Africa, examines the colonial legacy on which contemporary states build, and considers the political problematic that the colonial experience imparts with respect to cultural issues of identity, tribalism, and ethnicity in Africa. The course also examines the role of force and violence in consolidating political rule, the economic constraints that fetter Africa, and considers prospects for Africa's politics. Previously PO 0141.

**PO 0253 Latin American Politics****3 Credits**

**Attributes:** LCEL LACS Minor: Elective, PMCP Politics Major: Comparative Politics, WDIV World Diversity

This course examines contemporary Latin American politics, with particular attention to the challenges and opportunities for democracy and human rights in the region. In order to do this, the course provides a historical background that examines the challenges and opportunities presented by domestic and international dynamics in the region. The course covers the causes and consequences of democratic breakdowns in the region and the transition to democracy in the later part of the twentieth century. It also addresses the difficulties these young democracies face today and the continuous and uneven efforts to advance human rights in the region. Previously PO 0142.

**PO 0254 Caribbean Politics****3 Credits**

**Attributes:** BSCC Black Studies Component Course, BSSS Black Studies: Social and Behavioral Sciences, LCEL LACS Minor: Elective, PMCP Politics Major: Comparative Politics, WDIV World Diversity

Racism and ethnic conflict, colonialism and neocolonialism, grating poverty and bustling tourism all have their impact on the politics of these struggling countries. This course examines migration across the first world's borders in countries that include Cuba, Puerto Rico, the Dominican Republic, Haiti, Jamaica, Trinidad, Guyana, and Suriname. Students will complete a research project. Previously PO 0143.

**PO 0255 Middle Eastern Politics****3 Credits**

**Attributes:** PJST Peace and Justice Studies, PMCP Politics Major: Comparative Politics, WDIV World Diversity

This course examines the modern Middle East by familiarizing students with the most significant contemporary problems and controversies in the region. Themes and concepts, not individual country studies, structure the course. Some of the topics covered are youth, war, revolution, oil, political Islam, economic reform, and the Arab spring. Previously PO 0144.

**PO 0256 Asian Politics****3 Credits**

**Attributes:** PMCP Politics Major: Comparative Politics, WDIV World Diversity

This course examines the domestic politics of Asian countries. Asia is a vibrant region politically and economically, and is very important to the United States for international security and economic stability. Given its importance, this course provides broad and essential knowledge about Asian nations. The course begins with historical background of various countries in Asia, and then examines politics in selected Asian countries. Country studies are intended to introduce major issues in comparative politics such as democracy, economic development, ideology and political conflict. Previously PO 0145.

**PO 0257 Northern Ireland: Politics of War and Peace****3 Credits**

**Attributes:** CAOT Catholic Studies: Non-Religious Studies, PJST Peace and Justice Studies, PMCP Politics Major: Comparative Politics

This course focuses on "the Troubles" in Northern Ireland from 1969 to the present beginning with historical background that emphasizes England's role from the 17th century through the present. It examines the 20th century conflict primarily as a national liberation struggle against a sectarian regime in the North supported by England. The course follows a chronological format starting with the civil rights marches in the late 1960's, the state repression that followed and subsequent community responses including the hunger strikes and electoral campaigns. It concludes with the peace process and grassroots efforts by former paramilitaries from both Catholic and Protestant communities to work together on issues of common concern. Previously PO 0147.

**PO 0258 Political Violence****Attributes:** PMCP Politics Major: Comparative Politics

This course offers a comparative study of political violence including civil war, terrorism, and separatist movements. We will examine a variety of theoretical and empirical approaches to violence. The course is designed to introduce students to core debates as well as cutting edge research on violence. Students will also learn about political violence across the globe through single country studies. Previously PO 0148.

**PO 0259 The Development Gap****3 Credits****Attributes:** PJST Peace and Justice Studies, PMCP Politics Major: Comparative Politics, WDIV World Diversity

This course introduces a comparative approach to studying the forces affecting development in the Third World. Examples are selectively drawn from Asia, Africa, Latin America, and the Middle East. It examines the roots of wealth and poverty, obstacles to development, responses to globalization, and current debates over the development prospects of the Third World. Previously PO 0149.

**PO 0261 Authoritarianism and Film****3 Credits****Attributes:** PMCP Politics Major: Comparative Politics

Almost half of the world population lives under authoritarian or totalitarian regimes. Moreover, several democracies around the world are far from consolidated and exist at risk of democratic breakdowns. This is an interdisciplinary course that combines politics and film studies to introduce students to the enduring phenomena of authoritarianism and totalitarianism. Political science furthers our understanding of the causes and enduring legacies of authoritarianism and totalitarianism, while film studies help us understand how cinema communicates specific narratives in such a way that they strengthen or challenge these regimes.

**PO 0271 United Nations Security Council Crisis Simulation****3 Credits****Attributes:** HACA Humanitarian Action Minor Context Course, PMIR Politics Major: International Relations, WDIV World Diversity

This course gives students a hands-on learning experience in world diversity by simulating a United Nations Security Council crisis in international peace and security. The objective is to introduce students to the challenges of global governance in light of the different perspectives they encounter representing different constituencies of the UN Security Council who come from diverse cultural, historical, and geo-political regions of the world. A key goal of the course is to bring to light whether and how power disparities limit the global South's effective representation, and the stakes in reform of the Security Council. While the topic of the simulation will vary, the focus is on a crisis in a non-Western region of the world. Previously PO 0127.

**PO 0272 Politics of Humanitarian Action****3 Credits****Attributes:** PMIR Politics Major: International Relations, WDIV World Diversity

This course introduces students to complex humanitarian crises and the challenges of responding. Students explore why the often-troubled governance practices of humanitarian intervention makes this a highly contested, yet indispensable arena of global politics. The course examines enduring political and normative tensions at the core of the international humanitarian system run by states, non-governmental organizations (NGOs), the United Nations and its lead agencies, and increasingly, the private sector. Students use critical theories, ethical frameworks and other skillsets to explore questions such as the accountability of humanitarian actors to the people they aid in risk-laden operational environments. Previously PO 0129.

**3 Credits****PO 0273 Humanitarian and Disaster Response Field Training****3 Credits****Attributes:** HASM Humanitarian Action Minor Skills/Method Course, PMIR Politics Major: International Relations

This course offers training in humanitarian action and disaster response in collaboration with local emergency response agencies and related regional, national, and global networks. Students acquire training and certification in humanitarian standards, become registered volunteers with the American Red Cross, learn from local FEMA Community Emergency Response Teams, and participate in immersion experiences and simulations on international humanitarian crises. The course contextualizes aid work through a range of critical, ethical and moral theories. The course first introduces competing paradigms, second explores principles and field training, and third concludes with intersectionality and other critical perspectives on responding to needs.

**PO 0274 International Environmental Policies****3 Credits****Attributes:** EVME Environmental Studies Major Elective, EVPE

Environmental Studies Elective, EVSS Environmental Studies: Social Science, PMIR Politics Major: International Relations

This course examines important issues in the practice and study of international environmental policy. The course consists of four interrelated sections designed to provide the factual knowledge and conceptual frameworks required for working in this field: the process and difficulty of creating effective International environmental policy; factors that assist effective policy; history, trends, and actors; and key current issues including climate change, biodiversity, toxic pollution, trade and the environment, sustainable development, and environment and security, among others. Previously PO 0131.

**PO 0275 Climate Change: Politics and Policy****3 Credits****Attributes:** EVME Environmental Studies Major Elective, EVPE

Environmental Studies Elective, HACA Humanitarian Action Minor Context Course, PMIR Politics Major: International Relations

This course examines key political, scientific and economic issues surrounding global climate change. Topics include: the causes and impacts of climate change; policy-making under uncertainty; key technological, energy and economic issues; and, in particular, climate policy at the global, national, state and local levels; Students will gain the ability to understand and analyze climate policy options at the global, national and local levels. Previously PO 0132.

**PO 0276 United States Foreign Policy****3 Credits****Attributes:** ASGW American Studies: Gateway, ASPO American Studies: Politics, PMIR Politics Major: International Relations

How is foreign policy made in the United States? This course examines the impact of domestic and international actors and processes in the formation and conduct of United States foreign policy. It also provides a historical background on the basis of which it analyzes contemporary United States economic foreign policy, security foreign policy, environmental and energy foreign policy, and the promotion of democracy and human rights in different regions of the world, including Asia, Latin America, Western Europe, Africa, and the Middle East. Previously PO 0133.

**PO 0277 Globalization: Who Rules the World?****3 Credits****Attributes:** PMIR Politics Major: International Relations

In a globalizing world, understanding the link between wealth and power is increasingly important. This course seeks to explore the international and global context of the intersection of politics and the economy today. It examines the impact of globalization on states, markets, societies, businesses, and people by posing such questions as "In whose interest?" and "Who benefits?" Previously PO 0134.

**PO 0278 International Law****3 Credits**

**Attributes:** HACA Humanitarian Action Minor Context Course, PJST Peace and Justice Studies, PMIR Politics Major: International Relations  
This course is an introduction to international law, which addresses the questions of what is international law, who makes international law and who is bound by it, and why states and other actors obey international law even though there is not world government to enforce it. The course also introduces students to the substance of international law on different areas such as human rights, the environment and the use of force in international politics. Finally, the course provides a practical overview to the United Nations system, focusing both on the five principal organs (the Security Council, the General Assembly, the Secretariat, ECOSOC and the International Court of Justice) and the specialized agencies (UNICEF, UNDP, and more). Previously PO 0135.

**PO 0279 Threats to Global Security in the 21st Century****3 Credits**

**Attributes:** HACA Humanitarian Action Minor Context Course, PMIR Politics Major: International Relations  
This course is designed as an introduction to global security. It considers, traditional and new security topics, from interstate and civil wars to environmental degradation and famines. We will look at these topics through the lenses of major paradigms in International Relations (IR) theory, such as Realism, Liberalism and Constructivism and also from the perspective of Feminist, Critical and Peace studies' theories. In addition to learning to think about global security in a systematic and critical way, in this course we will consider the political, ethical and social dimensions of threats to global security today. Previously PO 0137.

**PO 0280 Border Politics****3 Credits**

**Attributes:** HACA Humanitarian Action Minor Context Course, PJST Peace and Justice Studies, PMIR Politics Major: International Relations, WDIV World Diversity

This course explores how border politics have evolved from historical practices of territoriality and the rise of the nation-state system, including the social construction of "imagined communities" and the boundaries that define them. Yet this system faces many challenges. Drawing from critical theories of identity, state formation and intersectionality, students explore erosions of state sovereignty through globalization, climate change, crisis migration, refugee flows, asylum seekers, transnational crime and terrorism. As case studies from the global north and south illustrate, states are increasingly turning to global and domestic disciplinary regimes to wall up, fence out, surveillance, detain and deport the "other." Students examine these trends in the context of the moral, political, security, corporeal and human rights questions at stake. Previously PO 0138.

**PO 0295 Research Methods****3 Credits**

**Attributes:** PMAP Politics Major: American Politics

This course is designed to help students understand the methodological process to scientific inquiries. Students will learn how to properly study and think scientifically about political science and politics. This class will teach students how to identify research questions about the political world, generate meaningful measurements of the concepts being studied, create a research design for collecting data (i.e. evidence), construct testable hypotheses, conduct the necessary statistical analysis to test the hypotheses, interpret the results of the statistical analysis, and apply these results to the original theory of inquiry in a meaningful way.

**PO 0296 State Legislature Internship****6 Credits**

**Prerequisites:** PO 0101; two other politics courses.

Politics majors participate in the Connecticut General Assembly Legislative Internship Program, where students become acquainted with the legislative process by serving as aides to a legislator. Students complete a required research paper. Students must have a GPA of 3.0 or higher. Enrollment by departmental permission only.

**PO 0297 Washington Semester Internship****3-15 Credits**

**Prerequisites:** PO 0101; two other politics courses.

Politics majors work full-time as interns in a variety of public and private sector positions in the nation's capital, giving them the opportunity to experience governmental problems firsthand and apply what they have learned. Students earn nine credits for working as an intern, three for a course taken in Washington, DC, and for a major research paper. Students must have a GPA of 3.0 or higher. Enrollment by departmental permission only.

**PO 0298 Internship****3 or 4 Credits**

**Prerequisites:** Three politics courses.

Politics majors gain firsthand experience working off campus in fields related to their major. Typically, an internship requires 10 to 12 hours per week on site. The internship requires a journal and a term paper. An on-site supervisor and a politics professor evaluate student work. Students must have a GPA of 3.0 or higher. Enrollment by departmental permission only.

**PO 0299 Special Topics (Shell)****3 Credits**

**Prerequisite:** six hours of politics credits or permission of instructor.

This course offers a focused examination of a significant political issue or topic chosen from the areas of American Politics and Public Policy, Political Theory, Comparative Politics, and International Relations. Content will vary in successive offerings of this course. May be repeated for credit when topic varies. Previously PO 0190.

**PO 0300 Politics Seminar****3 Credits**

This course offers an in-depth investigation of a significant political issue or topic and is conducted in a seminar format and contains a significant research component. Open only to juniors and seniors by permission of the instructor. Previously PO 0390.

**PO 0301 The Battle Over Family Values in American Politics****3 Credits**

**Attributes:** ASPO American Studies: Politics, ASUP American Studies

Upper Level, PMAP Politics Major: American Politics, WSGF Women, Gender, and Sexuality Studies: Gender Focused

Contemporary American politics is marked by numerous debates about the family in American society. Issues of gay marriage, abortion, abstinence/pre-marital sex, shifting gender roles within the family, and new parenting and reproductive methods are some of the hotly debated policy issues, illustrating the political struggle to define the soul of America and the role of the family within. This course explores such contemporary political debates over the family, their policy implications and significance to current elections, also examining the historical context and previous ideological battles that characterize the tumultuous relationship between the family and the American state. Previously PO 0170.

**PO 0302 Seminar on Feminist Theory** **3 Credits**

**Attributes:** ASPO American Studies: Politics, ASUP American Studies Upper Level, PJST Peace and Justice Studies, PMPT Politics Major: Political Theory, UDIV U.S. Diversity, WSGF Women, Gender, and Sexuality Studies: Gender Focused

This course explores advanced topics in feminist theory, examining a number of trends in contemporary feminist theory. Topics include conceptions of the female body in Western culture, feminist theories of the family, global feminisms, theories of feminist subjectivity and gender performativity, and the intersections among gender, race, class, and sexuality. Previously PO 0220.

**PO 0303 Gender, War, and Peace** **3 Credits**

**Attributes:** HACA Humanitarian Action Minor Context Course, PMIR Politics Major: International Relations, WDIV World Diversity, WSGF Women, Gender, and Sexuality Studies: Gender Focused

This course examines the complexities of the gendered impact of war on men, women, families and children. Students learn about the gendered dimensions of war institutions, social structures and narratives of war. They explore the topic especially from the voices and perspectives of women in war zones and post-conflict settings around the world, including historical memories. Students learn how the forces of globalization and existing conditions of structural violence make women extremely vulnerable as societies slide toward war. Previously PO 0136.

**PO 0304 Sem on Global Environ Politics** **3 Credits**

**Attributes:** EVME Environmental Studies Major Elective, EVPE Environmental Studies Elective, PMIR Politics Major: International Relations

The causes, consequences and potential solutions to environmental problems are increasingly important subjects in global politics. This seminar explores critical, current issues in the theory and practice of global environmental politics. Readings and class discussion examine important new debates, including those on: reason for policy effectiveness; international regimes; accountability; the 2015 Paris climate agreement; why global ozone policy remains a relatively unique example of effective global environmental policy; the most prominent theoretical lenses employed by researchers and policy-makers; and the activities of international institutions. Previously PO 0210.

**PO 0305 Seminar on the Middle East** **3 Credits**

**Attributes:** PMCP Politics Major: Comparative Politics

The affairs of the Middle East continue to engage a great deal of international attention. This course offers the opportunity to examine a significant problem or issue concerning politics in the MENA (Middle East and North Africa) region conducted in a seminar format. In various semesters the seminar may be taught with a different focus. Previously PO 0344.

**PO 0398 Independent Study** **1-3 Credits**

**Prerequisites:** PO 0101, two other politics courses.

Upon request and by agreement with an individual professor in the department, a politics major may conduct a one-semester independent study on a defined research topic or field of study. Students must have a GPA of 3.0 or higher. Enrollment by departmental permission only.

## Portuguese (PG)

**PG 0110 Elementary Brazilian Portuguese I****3 Credits**

Designed for students with no prior experience with Portuguese or whose placement scores are in the range for this course level. This course, the first in a two-semester sequence, is designed to present the student with the essentials of pronunciation, structure, and usage, allowing students to acquire the skills of listening, speaking, reading, and writing. Cultures are explored through a variety of media. The course will broaden the students' understanding of the cultures of the different countries where Portuguese is spoken, especially Brazil.

**PG 0111 Elementary Brazilian Portuguese II****3 Credits**

**Prerequisite:** PG 0110.

This course, a continuation of PG 0110, is designed to present the student with the essentials of pronunciation, structure, and usage, allowing students to acquire the skills of listening, speaking, reading, and writing. Cultures are explored through a variety of media. The course will broaden the students' understanding of the cultures of the different countries where Portuguese is spoken, especially Brazil.

**PG 0210 Intermediate Brazilian Portuguese I****3 Credits**

**Prerequisite:** PG 0111.

This course, the first in a two-semester sequence, continues to build upon the skills acquired in the first-year sequence. The course focuses on increasing the development of communication and comprehension skills while exploring in more depth the complexity of the Brazilian Portuguese language. Emphasis is placed on the development of listening, speaking, reading, and writing skills, as well as the development of cultural literacy. Cultural emphasis is placed on both Brazil and the Lusophone world.

**PG 0211 Intermediate Brazilian Portuguese II****3 Credits**

**Prerequisite:** PG 0210.

This course, a continuation of PG 0210, continues to build upon the skills acquired in the first-year sequence. The course focuses on increasing the development of communication and comprehension skills while exploring in more depth the complexity of the Brazilian Portuguese language. Emphasis is placed on the development of listening, speaking, reading, and writing skills, as well as the development of cultural literacy. Cultural emphasis is placed on both Brazil and the Lusophone world.

## Psychology (PY)

**PY 0098 Comprehensive Exam in Applied Psychology****0 Credits**

The comprehensive examination in applied psychology requires candidates to demonstrate understanding and mastery of a broad body of relevant knowledge in psychology, as well as the ability to synthesize this knowledge in the creation of sophisticated essays. Candidates are eligible to take the master's comprehensive examination after successful completion of 24 credits, 18 of which must be specifically in psychology. Cumulative GPA of 3.0 required to sit for the exam.

**PY 0099 Comprehensive Examination in School Psychology****0 Credits**

**Prerequisites:** PY 0430, PY 0433, PY 0435, PY 0436, PY 0438, PY 0446.

The comprehensive examination in school psychology requires candidates to demonstrate understanding and mastery of a broad body of relevant knowledge in psychology, as well as the ability to synthesize this knowledge in the creation of sophisticated essays. Before candidates take the comprehensive examination, they must have completed, or be in the process of completing, 24 credits.

<b>PY 0101 General Psychology</b>	<b>3 Credits</b>	<b>PY 0131 Abnormal Psychology for Non-Majors</b>	<b>3 Credits</b>
This course introduces the science of mental processes and behavior by addressing a range of questions including: How is brain activity related to thought and behavior? What does it mean to learn and remember something? How do we see, hear, taste, and smell? How do we influence one another's attitudes and actions? What are the primary factors that shape a child's mental and emotional development? How and why do we differ from one another? What are the origins and most effective treatments of mental illness?		<b>Attributes:</b> HSSS Health Studies: Social Science This course introduces students to the field of abnormal behavior, presenting the classic behavior patterns in the classification system and discussing the possible causes and remediation of such. Psychology majors and students who have taken PY 0231 may not take this course.	
<b>PY 0111 Developmental Psychology for Non-Majors</b>	<b>3 Credits</b>	<b>PY 0201 Statistics for Life Sciences</b>	<b>4 Credits</b>
The course encompasses a developmental psychology approach to the growth of the individual from birth to old age, tracing motor, perceptual, language, cognitive, and emotional growth and emphasizing normal development. Psychology majors and students who have taken PY 0211 or PY 0212 may not take this course.		<b>Attributes:</b> EVAP Environmental Studies: Applied Professional Skills <b>Corequisite:</b> PY 0201L. This introductory course in statistical methodology and analysis includes descriptive statistics such as frequency distributions, central tendency, variability, and correlation as well as an introduction to probability, sampling theory, and tests of significance including the t-test, chi-squared, ANOVA, and non-parametric statistics. This course is open to majors in the behavioral, biological, and physical sciences. The lab complements the course by giving students supervised computation and problem-solving exercises using calculators and computers. Note: This course does not fulfill any core requirements.	
<b>PY 0118 Psychology of Death and Dying</b>	<b>3 Credits</b>	<b>PY 0201L Statistics Lab</b>	<b>0 Credits</b>
<b>Attributes:</b> HSSS Health Studies: Social Science Recent biomedical research, psychological theory, and clinical experience provide the foundation for this life-cycle study of death, dying, and bereavement. Some topics include the funeral process, cultural differences, suicide, the hospice approach, end-of-life issues, and euthanasia.		<b>Attributes:</b> EVAP Environmental Studies: Applied Professional Skills <b>Corequisite:</b> PY 0201.	
<b>PY 0121 Fundamentals of Social Psychology</b>	<b>3 Credits</b>	<b>PY 0202 Research Methods in Psychology</b>	<b>4 Credits</b>
This course surveys the major areas of concern in social psychology, emphasizing current issues and research in the fields of social influence and conformity, human aggression, prejudice, interpersonal attraction, propaganda, and persuasion. Psychology majors and students who have taken PY 0221 may not take this course.		<b>Prerequisites:</b> PY 0101, PY 0201. Building on PY 201 Statistics, this course teaches students to read, evaluate, design, conduct, and report psychological research. The course emphasizes critical thinking and effective oral and written communication. Students work through several different research projects.	
<b>PY 0122 Psychology and the Law</b>	<b>3 Credits</b>	<b>PY 0211 Developmental Psychology for Majors</b>	<b>3 Credits</b>
Implicit psychological assumptions about human behavior and how it should be controlled form the basis for the legal system, particularly our criminal justice system, from its code to its enforcement. This course examines those assumptions in light of current psycho-legal theory and research. It covers the treatment of traditional psychiatric populations (the mentally ill, mentally retarded, homeless) by the justice system in contrast to that received by normal people; clinical issues such as the insanity defense, predicting dangerousness, the validity of psychiatric examinations and lie detectors; and jury selection, eyewitness testimony, decision-making, sentencing, and parole.		<b>Prerequisite:</b> PY 0101. Using a research-oriented approach, this course focuses on the principal themes, processes, and products of human development from conception through adolescence. Students who have taken PY 111 or PY 212 may not take this course.	
<b>PY 0124 Introduction to Industrial/Organizational Psychology</b>	<b>3 Credits</b>	<b>PY 0212 Developmental Psychology for Majors with Lab</b>	<b>4 Credits</b>
This course introduces the field, contributions, and methods of industrial/organizational psychology. It covers the history of this branch of applied psychology and the psychologist's role, along with other scientist-practitioners concerned with the world of work, in developing and maintaining human work performances and work environments. The course explores current concepts and methods in several specialties within this field: personnel, organizational behavior and development, counseling, labor relations, consumer, and engineering/ergonomic psychology. Topics include recruitment, selection, training and development, and appraisal of individuals and groups; development and change of organizational cultures; and relations between organizations and their stakeholders. The course emphasizes the unique contributions of psychological science to understanding human work skills, interests, attitudes, motivations, satisfactions and stresses; work careers, management, leadership, communication, group processes, and organization.		<b>Prerequisite:</b> PY 0101. Although the content of this course is identical to PY 0211, it offers psychology majors the opportunity to participate in a laboratory experiential learning component in preschool Head Start classrooms. Specific hands-on assignments complement course material. Students who have taken PY 0111 or PY 0211 may not take this course.	
		<b>PY 0215 Adult Development and Aging</b>	<b>3 Credits</b>
		<b>Prerequisite:</b> PY 0101. This course examines the theoretical underpinning and current research related to a number of key issues in the field of adult development and aging including physical, cognitive, and social-emotional changes, diseases, and disorders, as well as successful aging and resiliency.	
		<b>PY 0217 Cross-Cultural Perspectives on Lifespan Development</b>	<b>3 Credits</b>
		<b>Prerequisite:</b> PY 0111 or PY 0211 or PY 0212. This course explores various developmental processes and cultural practices across the lifespan such as rites of passages, marriage, parenting, and gender equality from cultures across the globe. How do different cultures view various developmental milestones? What is similar across cultures? What is different? Ultimately, from a psychological perspective, what exactly is culture? And what variations in the course of development can be traced to the influence of culture?	

<b>PY 0221 Social Psychology</b> <b>Prerequisite:</b> PY 0101. This course surveys the major areas of concern in social psychology, emphasizing current issues and research in the fields of social influence and conformity, human aggression, prejudice, interpersonal attraction, propaganda, and persuasion. Students who have taken PY 0121 may not take this course.	<b>3 Credits</b>	<b>PY 0236 Human Neuropsychology</b> <b>Attributes:</b> HSST Health Studies: Science and Technology <b>Prerequisites:</b> PY 0261. Human neuropsychology is a branch of psychology that focuses on functional structures and systems of the human brain and how they support various higher order psychological processes (e.g., learning, attention, executive functioning, higher-order thinking, memory, language, emotion, and motor skills). This course thus concentrates on the brain-behavior relationships beyond the cellular-molecular level, with an emphasis on typical life-span development and common neuropathological syndromes (e.g., strokes, dementia, and traumatic brain injury) in relation to functional structures and systems of the human brain. Assessment and treatment interventions of neuropsychological disorders are addressed within this context.	<b>3 Credits</b>
<b>PY 0222 Stereotyping, Prejudice, and Discrimination</b> <b>Attributes:</b> PJST Peace and Justice Studies, UDIV U.S. Diversity <b>Prerequisite:</b> PY 0101. This course will familiarize students with basic and applied social psychological research on stereotyping, prejudice, discrimination, and minority experience. After considering the cognitive and motivational factors that contribute to stereotyping and prejudice, we will proceed to examine prejudice in the "real world," exploring literature on discrimination-related policies, effects of stereotyping, prejudice, and identity on achievement and status, and prejudice reduction programs. The course will take a primarily empirical approach, focusing on the ways in which scientific methods and empirical evidence can inform our understanding of these emotionally-charged and socially consequential issues.	<b>3 Credits</b>	<b>PY 0238 Psychological Testing</b> <b>Prerequisites:</b> PY 0101, PY 0201. This course offers an introduction to the principles of psychological test construction, administration and interpretation, and reviews the roles that these tests have in a broad clinical assessment and research. Specific evaluation of test reliability and validity are applied to test construction and to various published tests of intelligence, achievement, personality, and neuropsychological functioning.	<b>3 Credits</b>
<b>PY 0231 Abnormal Psychology for Majors</b> <b>Attributes:</b> HSSS Health Studies: Social Science <b>Prerequisite:</b> PY 0101. This advanced course in abnormal behavior offers an in-depth analysis of current research and theories of psychopathology. It examines the biological and psychological antecedents of abnormal behavior. The course emphasizes oral and written analysis.	<b>3 Credits</b>	<b>PY 0251 Cognitive Psychology</b> <b>Prerequisite:</b> PY 0101 or PY 0261. How can we study the mind? This course surveys topics in cognitive psychology, including attention, memory, thought, imagery, language, problem solving, and decision making. Through lectures, readings, demonstrations, and exercises, students learn about how we think and about scientific explorations of the mind.	<b>3 Credits</b>
<b>PY 0232 Theories of Personality</b> <b>Prerequisite:</b> PY 0101; PY 0111 or PY 0211 or PY 0212. The advanced presentation, analysis, and evaluation of theories of personality from Freud through Skinner broadens student understanding of the normal human personality in terms of theoretical structure, function, and dynamics, while enriching theoretical and historical understanding of the topic.	<b>3 Credits</b>	<b>PY 0252 Learning and Applied Behavior Analysis</b> <b>Prerequisite:</b> PY 0101 or PY 0261. This course focuses on the environmental determinants of behavior and behavior change. The first two-thirds of the course highlight current concepts and research in Pavlovian and operant conditioning, reinforcement, discrimination, extinction, punishment, avoidance learning, etc. The remaining third of the course emphasizes applied behavior analysis (aka: behavior modification) that is, how these learning concepts and principles can be successfully applied to education, parenting, therapy, medicine, and everyday life.	<b>3 Credits</b>
<b>PY 0233 Gender and Mental Health</b> <b>Attributes:</b> WSGF Women, Gender, and Sexuality Studies: Gender Focused <b>Prerequisite:</b> PY 0101. This course will explore the relationship between gender and mental health. Topics to be discussed include gender identity, gender differences in development throughout the lifespan, the impact of social and societal gender expectations on functioning, as well as gender differences in the response to trauma and victimization. The course will also include an in-depth examination of sex differences in clinical disorders such as depression, anxiety, eating disorders, PTSD, and personality disorders.	<b>3 Credits</b>	<b>PY 0261 Behavioral Neuroscience</b> <b>Prerequisite:</b> PY 0101 or PY 0261. Understanding the brain is one of the last and most challenging frontiers of science. Our brain functioning determines what we see, hear, know, think, or feel. Starting with the molecular and cellular machinery of neurons and the anatomy of the nervous system, the course proceeds through the neural basis of sensation, perception, memory, emotion, language, sexual behavior, drug addiction, depression, schizophrenia, etc. The enormous strides made by neuroscience in the last several decades show every sign of continuing and increasing; this course provides the foundation upon which a thorough understanding of brain-behavior relationships can be built.	<b>3 Credits</b>
<b>PY 0234 Theories in Psychotherapy</b> <b>Prerequisites:</b> PY 0101, PY 0231. This course explores similarities and differences across a wide range of psychotherapeutic endeavors by means of lectures, films, and tapes. The course covers traditional psychoanalytic techniques and more recent innovations.	<b>3 Credits</b>	<b>PY 0262 Sensation and Perception</b> <b>Prerequisite:</b> PY 0101 or PY 0261. How do we see, hear, touch, taste, and smell? What about individual differences? This course deals with basic sensory mechanisms and with perceptual processing. Students examine color, depth, pattern, and motion perception and complete an integrative final project. Students may do experiential learning to enrich their understanding of individual differences in sensation and perception.	<b>3 Credits</b>

<b>PY 0272 Hormones and Behavior</b>	<b>3 Credits</b>	<b>PY 0295 Supervised Research</b>	<b>3 Credits</b>
<b>Prerequisite:</b> BI 0171, BI 0172; or PY 0261.		<b>Prerequisites:</b> PY 0202.	
This upper level course in psychology will provide students with an overview of behavioral neuroscience, with an emphasis on behavioral endocrinology (hormones and behavior). Topics include the description of major classes of hormones, the techniques used in behavioral neuroscience, and the discussion of hormone-mediated behaviors including male and female reproductive behaviors, stress / fear, memory and cognition, parental behaviors, ingestive behaviors, and circadian rhythms. After weekly mini-review sessions of the relevant text, this course will emphasize primary research (journal) articles with student-led discussions.		The course provides research training experience in a supervised setting in which students work closely with a faculty mentor on various research projects. Such work may include assisting in designing and running lab research, data analysis, field experience, and library research. This hands-on experience enhances students' understanding of issues in research design and analysis, and prepares them for more advanced research opportunities should they choose to pursue them (e.g., independent research). Student researchers are expected to spend a minimum of 10 hours per week in their faculty mentor's lab. Enrollment by permission only.	
<b>PY 0274 Drugs and Behavior</b>	<b>3 Credits</b>	<b>PY 0301 Senior Seminar: Modern Psychology: History and Current Issues</b>	<b>3 Credits</b>
<b>Attributes:</b> HSSS Health Studies: Social Science		This seminar introduces students to the major historical perspectives in psychology; encourages critical thinking and the generation of creative ideas; and helps students engage in thoughtful questioning of the theory and knowledge base that constitutes the science of psychology. Open to senior psychology majors. Permission of the instructor is required for junior psychology majors.	
<b>Prerequisite:</b> PY 0261.			
This survey course discusses the psychopharmacological properties of the more significant drugs used for research and by society in general. Drug classes include alcohol and nicotine, depressants and stimulants, tranquilizers, opium derivatives, and hallucinogenic compounds. The course emphasizes drug action sites in the central nervous system as well as behavioral alteration in controlled and uncontrolled environments.			
<b>PY 0281 Special Topics (Shell)</b>	<b>3 Credits</b>	<b>PY 0321 Current Issues in Social Psychology</b>	<b>3 Credits</b>
<b>Prerequisite:</b> PY 0101.		This seminar engages with current issues in social psychological research. Although the specific topics covered in the course will change from semester to semester, the course will be structured to present an overview of each topic domain (through review articles and seminal empirical articles) followed by more contemporary readings on the topic and a discussion of current debates and open issues. Throughout the course, we will focus on applying insights from social psychological research to "real world" issues such as increasing individual well-being, supporting and maintaining healthy social relationships, creating more just and equitable communities, and improving judgment and decision-making.	
This intermediate level course focuses on a specific issue or topic in one of the major areas of psychology, including but not limited to social, cognitive, clinical, developmental, or biological psychology. In successive offerings, the content of this course will vary considerably. Thus, students may take more than one section of the course provided the content is different.			
<b>PY 0281F Special Topics: Community Behavioral and Mental Health</b>	<b>3 Credits</b>	<b>PY 0322 Senior Seminar: Health Psychology</b>	<b>3 Credits</b>
<b>Attributes:</b> HSSS Health Studies: Social Science		This course provides an in-depth survey of the discipline of health psychology framed within the context of socio-cultural factors such as ethnicity, gender and socio-economic status. Among the topics covered: stress, coping behaviors, biomedical and biopsychosocial models of health and illness, health behaviors, patient-provider communication. The students explore new ways to integrate theory and research with the advances in the science and practice of health psychology, and present their work in a final independent project. Open to senior psychology majors. Permission of instructor is required for junior psychology majors and non-majors.	
This course will provide an overview of the social and psychological foundations of community mental health practice. Using psychological knowledge of healthy human development across the lifespan, major public health issues will be explored. Particular emphasis will be placed on identifying risk and protective factors relevant to the development of effective preventative and remedial interventions to address important public health problems such as homelessness, drug, alcohol, and tobacco addiction, family violence (child, spouse, elder), community violence, depression and suicide, teen pregnancy and sexually transmitted diseases, obesity, insufficient nutrition, etc.			
<b>PY 0291 Internship in the Teaching of Psychology</b>	<b>3 Credits</b>	<b>PY 0331 Senior Seminar: Abnormal Child Psychology</b>	<b>3 Credits</b>
<b>Prerequisite:</b> PY 0101.		<b>Prerequisites:</b> PY 0111 or PY 0211 or PY 0212.	
Racism, sexism, classism, and their attitudinal and behavioral corollaries, bias, prejudice, and discrimination are characteristics of American culture that have plagued society and compromised America's democratic ideals throughout its history. The course explores the notion of race as a social construct and the development of individual cultural and racial identities, as well as ethnocentrism, racism, and ways to counter racism. All cognition takes place in the context of culture. The course also explores the influence of culture on cognition, between people in monocultural race/ethnic groups and within bicultural groups. An experiential component offers multicultural exposure.		This course provides a survey of the theory and research in the field of clinical psychology related to children and adolescents. More specifically, the seminar explores: the diagnostic characteristics of the major types of child psychological disorders, the etiology of each disorder from the different theoretical perspectives, and effective approaches to treatment and prevention. Open to senior psychology majors. Permission of the instructor required for junior psychology majors and non-majors.	

**PY 0332 Senior Seminar: Current Issues in Clinical Psychology 3 Credits**

This course provides an in-depth exploration of current research and practice in the field of clinical psychology. Factors that contribute to the etiology, maintenance, identification and treatment of psychological distress will be discussed. The course will also include an in-depth examination of clinical disorders including mood, anxiety, psychotic, eating, traumatic stress, and personality disorders. Treatment, resilience and coping will also be discussed. Open to senior psychology majors. Permission of the instructor required for junior psychology majors.

**PY 0351 Senior Seminar: False Memories 3 Credits**

Can people repress memories for childhood trauma? How accurate are eyewitnesses at reporting what they saw? Although most of the time, our memories serve us quite well, many of the strategies and mechanisms that help us remember accurately can also lead to errors. This course examines various types of memory distortions and what they can tell us about the mechanisms of memory. Through readings and class discussions, we will explore research addressing confusions between real and imagined memories, the reliability of eyewitnesses recollections, children's suggestibility, as well as clinical issues such as repression and dissociation from a cognitive perspective. Open to senior psychology majors. Permission of instructor is required for junior psychology majors.

**PY 0361 Senior Seminar: Current Issues in Behavioral Neuroscience 3 Credits**

**Prerequisite:** PY 0261.

This senior seminar will provide students with an overview of current research in behavioral neuroscience, with particular emphasis on behavioral endocrinology (hormones and behavior). It is strongly recommended that students complete PY 0261 before enrolling, although exceptions may be made. After a brief overview of a particular topic, including discussion of brain areas involved and techniques used to examine them, this course will emphasize current research articles in neuroscience. Specifically, how is behavioral neuroscience used to examine mechanisms behind certain behaviors and to treat anomalies? Areas of focus include clinical conditions (Alzheimer's, Autism, Post-partum depression) and addictive behaviors/drugs of abuse (Alcohol, Cannabis, Anabolic Androgenic Steroids). Open to senior psychology majors. Permission of the instructor required for junior psychology majors and non-majors.

**PY 0365 Neuroanatomy and Behavior 3 Credits**

**Prerequisite:** PY 0261.

This hands-on laboratory course in behavioral neuroscience will introduce students to comparative neuroanatomy using rat, sheep, and human brain specimens. Students will participate in animal handling, brain sectioning, small animal surgeries, and drug administration, and will gain experience with rodents on a number of behavioral assays, including tests for spatial memory and reproductive behaviors. In small group exercises, students will become proficient in critiquing and presenting scientific literature, and will help in all stages of an experiment, from design to data collection to analysis and the writing up and presentation of results. In addition, students may work on a service-learning project with a community partner during the semester. Enrollment by permission only.

**PY 0365L Neuroanatomy and Behavior Lab 1 Credit**

**Corequisite:** PY 0365.

**PY 0381 Senior Seminar: Special Topics (Shell) 3 Credits**

In this seminar, students undertake an in-depth study of a current topic in psychology, using mostly primary sources. Coursework emphasizes discussion and writing. Open to junior and senior psychology majors or by permission of instructor.

**PY 0391 Internship in Applied Psychology 3 Credits**

Senior psychology majors gain practical, career-related experience in a variety of supervised field settings through the internship program. Student interns choose from a wide selection of placements in traditional psychology-related programs: mental health, social service, school psychology, early child and special education, probation, and hospital administration. Intern placements in related disciplines include human factors engineering, human resource development, advertising, and public relations. Internships emphasize the integration of learning, both cognitive and experiential. Interns may register for one or two semesters, depending on the availability of appropriate placement sites and qualified supervisors. Interns spend a minimum of 10 hours per week in on-site work and complete the required academic component specified by the faculty coordinator. Enrollment by permission only.

**PY 0392 Internship in Applied Psychology 3 Credits**

Senior psychology majors gain practical, career-related experience in a variety of supervised field settings through the internship program. Student interns choose from a wide selection of placements in traditional psychology-related programs: mental health, social service, school psychology, early child and special education, probation, and hospital administration. Intern placements in related disciplines include human factors engineering, human resource development, advertising, and public relations. Internships emphasize the integration of learning, both cognitive and experiential. Interns may register for one or two semesters, depending on the availability of appropriate placement sites and qualified supervisors. Interns spend a minimum of 10 hours per week in on-site work and complete the required academic component specified by the faculty coordinator. Enrollment by permission only.

**PY 0395 Independent Research 1-4 Credits**

**Prerequisite:** PY 0202.

This course involves a limited number of upper-division students (usually seniors) in all aspects of an advanced research project. Students must obtain the consent of the professor with whom they will work prior to registering for this course. Frequently a research proposal is required prior to acceptance into this course; early planning is essential. Enrollment by permission only.

**PY 0401 Special Topics in Psychology (Shell) 1-3 Credits**

The special topic course varies in content, as needed, in order to provide timely opportunity to explore time sensitive, new and emerging topics and foci on a one-time basis, or to offer a pilot section of a new course in development. Each special topic course will have a unique focus, clearly identified in the course title after the colon. Candidates may take a special topic course more than once, as long as the course content and foci are distinctly identified.

**PY 0403 Introduction to Play Therapy 3 Credits**

This course provides candidates with instruction in client-centered play therapy. Course objectives include enhancing sensitivity to children's issues, developing an awareness of the world as viewed by children, increasing the ability to communicate effectively with children using play techniques, understanding children's behavior, communicating effectively with parents, and developing basic play therapy skills. Candidates also view demonstrations of actual play therapy sessions and gain experience applying play therapy strategies with children. This course is available to candidates enrolled in a certification program or those who are already certified.

**PY 0406 Organizational Development****3 Credits****Prerequisites:** PY 0420, PY 0435, PY 0545.

This course explores and analyzes the various methods and techniques for effective organizational development in contemporary organizations. The course focuses on models, case studies, and candidate examination of organizations with which they are affiliated. Candidates identify and study key success factors such as organizational culture, leadership, and history.

**PY 0420 Introduction to Industrial and Organizational****Psychology****3 Credits**

This course introduces the application of psychological concepts, principles, and methods to process issues and problems in the work environment. Topics include personnel selection, training and development, work motivation, job satisfaction and effectiveness, work design, and organizational theory. For students interested in the 5-year Integrated Bachelor's/Master's degree in Industrial/Organizational Psychology permission of the instructor is required. May be used by Psychology majors as a Psychology elective towards the undergraduate degree if PY 0124 has not been taken.

**PY 0430 Issues in Professional Practice in School Psychology 3 Credits**

Among the first courses that should be taken in the School Psychology program, this course presents a realistic view of school psychology, permitting participants to interview school psychologists and other school personnel in the field about the role of the school psychologist. It serves as a vehicle to affect the future of school psychology by empowering future school psychologists, and it introduces the issues primary to the profession and practice of school psychology. Topics include special education law; professional ethics; the history of school psychology; a tripartite model of service delivery; the "scientific practitioner" approach; consultation; child development and system theory as a basis for practice; advocacy for and education about the school psychologist's role; and an introduction to federal and state educational systems within which the profession operates.

**PY 0433 Behavioral Statistics****3 Credits**

Participants study descriptive and inferential statistics with an emphasis on methodological and technological applications in the behavioral sciences. Topics range from measures of central tendency to parametric and nonparametric tests of significance. Applied Psychology students must earn at least a B in the course for the course to count toward their degree. Candidates with a prior course in statistics may try to test out of PY 0433 before the first class. Contact the instructor well in advance of the first class to make arrangements. Candidates who successfully test out of this course will substitute another approved three-credit course appropriate to their program.

**PY 0435 Psychology of Personality****3 Credits**

This course takes a comprehensive approach to understanding theories of personality formation through an in-depth survey and critique of major and minor theories of personality. The course emphasizes developing a critical understanding of the similarities and differences among the theories and the contribution of each theory to conceptualizations of normal and abnormal behavior, with application to the understanding of current research in personality psychology. Cross-cultural issues are addressed. Applied Psychology students must earn at least a B in this course for the course to count toward their degree.

**PY 0436 Psychopathology and Classification I****3 Credits**

This course introduces candidates to advanced child and adolescent psychopathology. It provides the necessary foundation for undertaking subsequent courses or supervised practical training focused on the actual practice of formulating diagnoses and treating children and adolescents who are experiencing mental disorders. The course includes in-depth exposure to and discussion of the DSM-V and current research in psychopathology, and emphasizes understanding and identifying mental disorder symptoms and syndromes.

**PY 0437 Psychopathology and Classification II****3 Credits**

This course introduces candidates to advanced adult psychopathology. It provides the necessary foundation for undertaking subsequent courses or supervised practical training focused on the actual practice of formulating diagnoses and treating people who are experiencing mental disorders. The course includes in-depth exposure to and discussion of the DSM-V and current research in psychopathology, and emphasizes understanding and identifying mental disorder symptoms and syndromes.

**PY 0438 Treatment Models for School-Age Youth****3 Credits****Prerequisites:** PY 0435, PY 0436\*

In this course, candidates learn to develop treatment plans for children and adolescents in schools. Various psychotherapy models bridge the gap between theory and practice. Case studies serve as the primary learning vehicle. Given that children and adolescents frequently demonstrate emotional difficulties in the school setting, the course highlights theoretically informed therapeutic interventions that are pragmatic for use in the school setting, and emphasizes the importance of recognizing individual differences (cognitive, cultural, etc.) when designing interventions. (\*indicates concurrency allowed)

**PY 0446 Developmental Psychology I: Theory and Application in Professional Practice****3 Credits**

Candidates study human development from birth through adolescence.

Designed for graduate candidates pursuing careers as clinical practitioners, this course helps participants develop the basic skills necessary to understand their clients in the context of the various domains of human development. Candidates learn to identify deviations in development and craft corresponding intervention plans. The course also emphasizes cultural competence, providing candidates with an understanding of individuals and families within a cultural context.

**PY 0449 Introduction to Clinical Child Neuropsychology****3 Credits****Prerequisites:** PY 0538, PY 0540.

This course introduces candidates to brain structure, development, and function as the child grows to adulthood. Discussion topics include cognitive, academic, and behavioral sequelae of commonly encountered neuropathologies of childhood and adolescence, with case illustrations. Because of the emphasis placed on educational outcomes of neuropathology, the course addresses dyslexia, attention deficit disorder, and non-verbal learning disability.

**PY 0471 Effective Interviewing****3 Credits**

This course trains individuals whose work requires a high skill level in communication. The course emphasizes defining the goals of the interview and the best means for achieving these goals, attending to overt and covert language and non-language messages, and dealing with the emotional dimensions of the interview. Candidates learn and experiment with a variety of interviews in different contexts.

**PY 0475 Program Evaluation****Prerequisites:** PY 0201; or PY 0433, PY 0571.

This course focuses on concepts and principles in performing evaluations of psychological and social programs. Evaluations are an amalgam of political and scientific perspectives that require numerous skills and talents. A number of topics and models of evaluation are presented. However, no two evaluations are alike. Therefore, solid training in methodology and technical techniques is imperative for performing evaluations. The objectives of this course are to develop skills in designing evaluations, to develop survey instruments, to develop proposals, and to communicate evaluation results. In each of these areas, ethical issues are addressed. Quantitative methods are emphasized, but qualitative approaches are presented.

**PY 0480 Consulting Theory and Practice****3 Credits****Prerequisite:** PY 0420 or matriculation in the Clinical Mental Health Counseling program.

This course is designed to assist candidates in developing an understanding of and skills in the practice of consultation in both internal and external roles. The core psychological principles and techniques apply equally well in business, non-profit, and educational settings. The course focuses upon the psychological concepts, models, and principles for effective consultation. A variety of contemporary models are examined. Candidates are expected to develop insight into their own consultation approaches and their strengths and needs.

**PY 0485 Performance Coaching****3 Credits**

This course focuses upon the models, strategies and techniques for coaching and mentoring managers and employees in contemporary organizations. Students are introduced to research on interpersonal and leadership style issues that have been shown to play key roles in leadership success or failure. Students are also introduced to research related to leadership "derailment," or failure patterns observed in managers and employees who have been previously assessed as being moderate to high-potential leaders. Within this course, students learn about the most common performance coaching challenges and practice conducting performance coaching sessions.

**PY 0501 Fundamentals of Survey Design****3 Credits****Prerequisite:** PY 0201 or PY 0433.

This course covers the important basics of measurement and the fundamentals of un-normed survey and questionnaire design. It also will provide training in entry-level survey/questionnaire skills for those who may be required to develop simple surveys/questionnaires in their work.

**PY 0534 Theories of Learning****3 Credits**

This course considers, in detail, the conditions of human learning found in the principal schools of psychology on the contemporary scene. Candidates investigate other theories for individual reports. Crosslisted with ED 0534.

**PY 0535 Collaborative Consultation****3 Credits****Prerequisites:** PY 0430, PY 0548.

Designed to give candidates knowledge and consultation skills, this course presents consultation as a collaborative problem-solving process that is empowering and prevention-oriented. The course focuses on mental health consultation as described by Gerald Caplan. Candidates learn the major models of consultation, the generic stages of consultation, and four levels of consultation service. The course also addresses practice issues, such as consultee resistance, consultee perspective, and consultant self-awareness. The course includes a practicum component in which candidates consult with a teacher at a school site once a week for approximately 10 weeks.

**PY 0537 Psychoeducational Assessment I: Behavioral Approaches****3 Credits**

Designed for school psychology candidates, this course is the first in a four-course sequence in the psycho-educational evaluation of school-aged children. It covers the key concepts and procedures used in the behavioral assessment of individuals with a dual emphasis on functional behavioral assessment and progress monitoring within a response-to-intervention model. Topics covered include direct observation procedures, indirect assessment procedures, data collection and progress monitoring, functional analysis, reinforcer assessment, social validity assessment, direct behavior ratings, inter-observer reliability, and linking assessment results to behavior intervention and support plans. Applications at all three tiers of a response-to-intervention model will be discussed. This course is also the first course in the three course program: Advanced Training in Applied Behavior Analysis.

**PY 0538 Psychoeducational Assessment II: Standardized Approaches****3 Credits****Fee:** \$60 GSEAP Lab Fee**Corequisite:** PY 0540.**Prerequisite:** Completion of all MA degree requirements.

For school psychology candidates, this course is designed to advance their knowledge and skills of standardized assessment instruments commonly used by school psychologists in practice. This course will include review of psychometric constructs relevant to the measurement of intelligence and achievement, review of cross-battery assessment, (c) practice in the administration and scoring of standardized measures of intelligence, achievement and behavior, and (d) practice in the interpretation of test scores, (e) practice in the preparation of written reports summarizing test results, (f) exploration of multicultural issues related to assessment, and (g) review of the application of intelligence testing in school and clinical settings.

**PY 0540 Psychoeducational Assessment III: Clinical Approaches****3 Credits****Fee:** \$60 GSEAP Lab Fee**Corequisite:** PY 0538.**Prerequisite:** Completion of all MA degree requirements.

This course provides an introduction to clinical approaches to assessment for candidates in the school psychology program. A variety of assessment techniques will be presented and critically reviewed, including clinical interview, clinical observation, and projective techniques commonly used by school psychologists to assess students in school settings. Candidates will gain practice in the administration and interpretation of clinical assessments as well as basic report-writing.

**PY 0541 Behavior Change Procedures****3 Credits****Prerequisite:** PY 0537.

This course will present behavior change procedures for use with individual and group clients. Antecedent, consequence, and alternative behavior interventions will be discussed. Procedures to learn include the use of: reinforcement and punishment (including differential reinforcement), modeling, shaping, chaining, etc. Specific topics will include discrimination training, contingency contracting, and group contingencies, among others. Basics of working with verbal behavior also will be introduced. This course is the second course in the three-course Applied Behavior Analysis Advanced Training Certificate program.

**PY 0542 Measurement, Data Analysis, and Experimental Design in Applied Behavior Analysis** 3 Credits**Prerequisites:** PY 0537, PY 0541.

This course will present the concepts, principles, and tools of measurement used for assessment and intervention within applied behavior analysis. Topics covered will include defining target behaviors, choosing measurement strategies and procedures for various dimensions of behavior, single-case design, graphical presentation of data, and applications within a response-to-intervention framework. This course is the final course in the three course program: Advanced Training in Applied Behavior Analysis.

**PY 0544 Psychoeducational Assessment IV: Integrated Assessment** 3 Credits**Prerequisites:** PY 0538, PY 0540.

For school psychology majors only, this is the fourth and final course in the advanced study of applied psychoeducational assessment.

Designed for graduate candidates who are in the final stages of preparing for on-site professional assessment, this course focuses on continuing instruction in the administration and interpretation of various assessment techniques, emphasizing cognitive measures, academic assessment, academic achievement tests, and projective techniques, as well as psychological report-writing that integrates all assessment data into clear, accurate, written psychological reports. The course also stresses cultural and ethical competence in order to meet the need to synthesize and integrate assessment data into comprehensive, non-biased psychological evaluations of children and youth. Candidates administer comprehensive psychoeducational batteries within a school or agency in preparation for their internship in school psychology.

Formerly "Integrated Assessment."

**PY 0545 Designing and Developing Training Programs** 3 Credits**Prerequisites:** Matriculation in the IOPE program; PY 0420.

Designed for prospective trainers, training specialists, personnel generalists, or line personnel in business and industry, this course focuses on designing and developing training programs for administrative professionals, management employees, and school personnel. Course assignments provide individualization and allow content to be tailored to participant needs and working environments. Crosslisted with MD 0545.

**PY 0548 Psychotherapeutic Techniques for School-Age Youth** 3 Credits**Prerequisites:** PY 0430, PY 0435, PY 0438, PY 0446.

This course provides school psychology, school counselor, and social work candidates with a first exposure to psychotherapeutic techniques. Topics include the purposes and rationale for such techniques, selection of appropriate methodologies, ethical considerations, and practice skills.

**PY 0571 Research in Psychology** 3 Credits**Prerequisite:** PY 0433.

This course emphasizes developing a critical understanding of the essential issues involved in designing, conducting, and reporting the results of psychological research. It provides the foundation necessary for more advanced courses in research design and data analysis or for developing a master's thesis proposal.

**PY 0576 Practicum I: Assessment and Group Process** 3 Credits**Corequisite:** PY 0544.

This course provides support and university supervision for candidates in their semester long school-based practicum. This course primarily provides opportunities to gain practice and facility in testing and report writing. Additionally, the course provides students with an in-class opportunity to experientially learn group process from the perspective of a group member, as well as group facilitator. Candidates also learn how to develop lesson plans and conduct whole class lessons. Enrollment by permission only.

**PY 0577 Practicum II: Counseling and Group Process** 3 Credits**Prerequisite:** PY 0576.

This course provides support and university supervision for candidates in their eight-week long mental health practicum. The primary purpose of this course is to provide opportunities to gain practice and facility in individual and group counseling, behavior modification, and interviewing in a mental health setting. Candidates typically work with challenging cases, which enables them to act as better liaisons to acute care facilities when in the schools. Additionally, the course provides students an in-class opportunity to experientially learn group process from the perspective of a group member, as well as group facilitator. Candidates take this course the summer before internship.

**PY 0578 Field Work in Applied Psychology** 3 Credits**Prerequisites:** Completion of 21 credits in psychology, including PY 0406, PY 0420, PY 0433, PY 0435, PY 0545, PY 0571; B or better cumulative GPA.

Advanced candidates matriculated in the industrial/organizational/personnel track undertake approved, supervised fieldwork in an area related to their professional interests and program content. Course requirements include a site supervisor and a faculty supervisor for each candidate, and a fieldwork placement that involves at least 13 full days of on-site experience. Enrollment by permission only.

**PY 0595 Independent Study** 3 Credits

Candidates conduct individual projects in consultation with a faculty member from the Department of Psychological and Educational Consultation. Enrollment by approval of faculty advisor.

**PY 0596 Master's Thesis** 3 Credits**Prerequisites:** PY 0433, PY 0571.

Part-time candidates matriculated in school psychology may engage in a master's thesis project. The candidate's project must demonstrate an advanced, sophisticated knowledge of psychology and be considered a contribution to the field. Activities in the development of the thesis include an initial outline of the project, proposal (including a review of the related literature and proposed thesis), and final report. Candidates submit proposals in the semester preceding registration for this thesis course and may register only during the normal registration period preceding each semester. Enrollment by permission only.

**PY 0598 Internship in School Psychology I** 3 Credits**Prerequisite:** All course work and approval of program coordinator.

This course provides weekly supervision and support at the University for candidates during the fall semester of the school psychology internship. This internship allows candidates to integrate the skills they have acquired in the program, build confidence using those skills, and develop a sense of professional identity. The course stresses a tripartite approach to school psychology, with equal emphasis on assessment, direct intervention, and consultation.

**PY 0598P Internship in School Psychology I** 3 Credits

See PY 0598.

<b>PY 0599 Internship in School Psychology II</b> <b>Prerequisite:</b> PY 0598. This course provides weekly supervision and support at the University for candidates during the spring semester of the school psychology internship.	<b>3 Credits</b>	<b>MPA 0430 Economics of the Nonprofit Sector</b> <b>Prerequisites:</b> MPA 0405, MPA 0410. This course will examine both the role that nonprofits play in the U.S. economy and how charitable organizations are managed and financed, including the interplay between the government and the Third Sector. Particular attention will be paid to distinctions between successful (impactful) nonprofits and those that are less effective in pursuing societal needs. New forms of philanthropic organizations will be examined, including benefit corporations and social marketing enterprises. In addition, new ethical practices, including impact investing, will be surveyed. Case studies will be utilized to illuminate the economic circumstances that can impact individual nonprofits.	<b>3 Credits</b>
<b>PY 0599P Internship in School Psychology II</b> See PY 0599.	<b>3 Credits</b>		
<h2>Public Administration (MPA)</h2>			
<b>MPA 0400 Financial Management and Budgeting</b> This course will examine the proper role government has to play in today's economy and will provide the fundamental and technical skills necessary to understand public budgeting and finances. Topics include the reasons for government involvement in the economy (market failure and redistribution), budgeting techniques at all levels of government, and sources of tax revenue. There will be a strong emphasis on issues related to state/local governments. By the end of this course students should have a strong understanding of the budgetary process at all levels, but in particular at the state/local level of government.	<b>3 Credits</b>	<b>MPA 0450 State and Local Government</b> <b>Prerequisite:</b> MPA 0410. This examines the political processes and institutions of U.S., state, and local governments. By the end of the course, students will be able to discuss the state/federal/local relationships within the context of the American Constitution and political process, examine the various governmental structures and functions of state and local governments and how these structures impact the political process, demonstrate an understanding of the role states and localities play in the elections and the political process, understand the institutions of state and local governments including how they vary, and the various policy issues before the states and local governments.	<b>3 Credits</b>
<b>MPA 0405 Research Methods</b> This course will introduce students to research methodology and hypothesis testing. The first part of the course will focus on understanding basic research techniques in the social sciences, including data collection, data analysis and reporting of results. The second half of the course will emphasize methodology. Students will be required to conduct a major research project in a laboratory setting and produce a finished report. Students must have taken a prior statistical methods class.	<b>3 Credits</b>	<b>MPA 0470 The Dynamics and Challenges of Administrative Corruption</b> Corruption is a reality in the public sphere, both in the nonprofit and governmental sectors. The various forms of corruption, from simple gratuities to outright subversion of the political process will be examined. The modern democratic state has necessarily instituted controls that suppress corruption, but the complexity of governance may enable the undermining of those controls. Public administration students will likely encounter numerous instances of corrupt practices in their careers, and understanding corruption will enable students to respond professionally when confronted by malfeasance. This course will also cover institutional structures that either encourage or discourage corruption in other nations.	<b>3 Credits</b>
<b>MPA 0410 Introduction to Public Administration</b> This course provides an overview of the history, practical nature, function of public administration and policy making at the federal, state at the local levels. It will examine the theories and concepts of bureaucracy, as well as the formulation and implementation of policy. Among the topics covered are organization theory, federalism and regulation, ethics and accountability, decision-making, and leadership and budgeting. Case studies will be used to facilitate class lectures and discussions.	<b>3 Credits</b>	<b>MPA 0500 Internship</b> Students are required to complete six credits of internship at a position relevant to their interests. Those in the city/state government track will be assigned to internships at local government and state offices, while those in the nonprofit track will be offered relevant positions at local not-for-profits. This requirement may be waived for those who already have experience working for a nonprofit or a government agency.	<b>3 Credits</b>
<b>MPA 0415 Human Resource Management</b> Students choose from MG 0505 or MG 0525.	<b>3 Credits</b>	<b>MPA 0510 Capstone Experience</b> The Capstone Experience is intended to complement the student's coursework and complete the chosen program of study. It is undertaken with the close supervision of a faculty advisor and can take the form of a specially designed course, independent study, or a master's thesis.	<b>3 Credits</b>
<b>MPA 0420 Leadership</b> Students choose from CO 0522 or MG 0500.	<b>3 Credits</b>		
<b>MPA 0425 Grant Writing</b> This course will prepare participants to write effective proposals and reports. It will also provide information on planning special fundraising events, requesting funds from donors and seeking funds from corporations and foundations. Students will learn to define and write problem statements, objectives, plans of action, assessment documents, budgets and project summaries. In addition, students will sharpen their teamwork, editing, writing, audience awareness and design skills as they engage in collaborative projects with a nonprofit organization or government agency.	<b>3 Credits</b>		

## Public Health (PB)

### PB 0101 Public Health and Social Justice

**3 Credits**

Health is broadly considered a human right and universal access to care is a core target of Public Health. Improving health often requires population-level interventions. As such, addressing disparities is to a significant extent a public health challenge. This course illuminates the social justice dimension of public health practice. It will familiarize the student with key documents that support public health action to address health disparities and equip students to more effectively advance public health through not only public health practice, but also through other health disciplines, health law, health economics, diplomacy, and government.

### PB 0201 Public Health, Disease, and Injury

**3 Credits**

Public health requires familiarity with the epidemiology, pathology, prevention, and treatment of a wide range of infectious, non-communicable, mental, reproductive, and nutritional conditions, as well as violence and unintentional injuries. This course offers a population-focused survey of abnormal human health with an emphasis on leading global causes of morbidity and mortality, key personal risk factors, and broader social determinants of health. The student will gain an understanding of principles for endemic disease and injury control and establishes the foundation for courses that follow.

### PB 0203 Public Health Program Planning and Evaluation

**3 Credits**

#### Prerequisite:

PB 0101.

This course provides the foundation for developing culturally competent community-based health interventions. Students learn the process of public health programming, including assessment, design, planning, implementation, and evaluation. This course integrates theory to examine interventions at various levels (individual, community, policy).

### PB 0305 Public Health Seminar

**3 Credits**

#### Prerequisites:

PB 0201, PB 0203.

This seminar assists students to apply evidence-based skills achieved throughout the program in order to better understand public health readings and reports. Through weekly readings, discussions, and debate, students will mobilize public health knowledge and examine implications for health policy while modeling the discourse that occurs in professional public health settings.

### PB 0310 Public Health Capstone

**3 Credits**

#### Prerequisites:

PB 0201, PB 0203.

This capstone course is designed to provide a platform for the development of strategic plans to address current public health problems in defined populations. Within the course, students develop a culminating project incorporating skills in needs assessment, statistics and epidemiology, program planning and evaluation, policy development, and advocacy.

### PB 0315 Public Health Internship

**6 Credits**

#### Prerequisites:

PB 0201, PB 0203.

The public health internship may be completed in a local public health agency or overseas with the permission of the program director. The internship experience exposes students to the elements of the core functions of public health and the application of these core functions in public health settings. While not all internships will allow for extensive exposure to all of the essential services, students are expected to discuss how the agency addresses those services.

## Quantitative Analysis (QA)

### QA 0400 Applied Business Statistics

**3 Credits**

Using spreadsheet software, this hands-on course teaches a variety of quantitative methods for analyzing data to help make decisions. Topics include: data presentation and communication, probability distributions, sampling, hypothesis testing and regression, and time series analysis. This course uses numerous case studies and examples from finance, marketing, operations, accounting, and other areas of business to illustrate the realistic use of statistical methods.

### QA 0500 Business Forecasting and Predictive Analytics

**3 Credits**

#### Prerequisite:

QA 0400.

This course introduces analytical techniques used for decision-making under uncertainty. Topics include time series and other forecasting techniques, such as Monte Carlo simulation, to assess the risk associated with managerial decisions. Specifically, we will cover data collection methods, time dependent models and analysis, advanced solver, time series techniques, exponential smoothing, moving averages, and Box-Jenkins (ARIMA) models. Application examples include financial models - stock prices, risk management - bond ratings, behavior models - customer attrition, customer likes/dislikes, buying patterns - propensity to buy, politics - identify swing voters, and sales.

## Reading and Language Development (RLD)

### RLD 0429 Principles of Structured Literacy I: Fundamentals of Reading and Language Development

**3 Credits**

This course covers the foundational concepts of oral and written language including the language processing requirements of proficient reading and writing: phonological, orthographic, morphologic, semantic, syntactic, and discourse processing. Students will learn other aspects of cognition and behavior that affect reading and writing such as attention, executive function, memory, processing speed, and grapho-motor control. Candidates will learn the typical developmental progression of oral language (semantic, syntactic, pragmatic), phonological skills, printed word recognition, spelling, and reading fluency. Candidates will also learn how the relationships among major components of literacy development change with reading development (i.e. changes in oral language, including phonological awareness; phonics and word recognition, spelling; and reading and writing fluency). The research and instructional strategies for phonological awareness, systematic phonics, and reading fluency will be taught. Crosslisted with SE 0429.

### RLD 0486 Developmental Literacy I: Fundamentals of Reading and Language Development

**3 Credits**

This course is the first in a set of two courses that address the foundational concepts, theories, empirical research, and developmental milestones associated with oral and written language. This course focuses on the development of essential decoding strand reading skills (phonological awareness, alphabetic principle, fluency), as well as aspects of cognition and behavior that affect reading and writing. Candidates learn how to administer, score, and interpret universal screening and informal diagnostic measures in the areas of phonological awareness, alphabetic principle, and fluency for the purposes of determining the most appropriate starting point for instruction and planning differentiated instructional groups. Candidates also learn how to select and deliver varied research-based instructional strategies to develop students' foundational reading skills in the areas of phonological awareness, alphabetic principle, and fluency. Crosslisted with SE 0486.

**RLD 0487 Developmental Literacy II: Essentials of Vocabulary and Text Comprehension** **3 Credits**

This course is the second in a set of two courses that address the foundational concepts, theories, empirical research, and developmental milestones associated with oral and written language. This course focuses on the development of essential comprehension strand reading skills (fluency, vocabulary, comprehension), as well as aspects of cognition and behavior that affect reading and writing. Candidates learn how to administer, score, and interpret universal screening and informal diagnostic measures in the areas of vocabulary, comprehension, and fluency for the purposes of determining the most appropriate starting point for instruction and planning differentiated instructional groups. Candidates also learn how to select and deliver varied research-based instructional strategies to develop students' reading skills in the areas of vocabulary and comprehension. Crosslisted with SE 0487.

**RLD 0488 Content Area Literacy Strategies** **3 Credits**

This course introduces candidates to content area and disciplinary literacy reading practices at the elementary, middle, and high school levels. Strategies to facilitate comprehension of narrative and expository text structures, including strategies that address the reading-writing connection, are introduced. Candidates also learn about adolescent literacy development, achievement, and engagement, and how factors related to cultural, linguistic, and cognitive diversity impact students' comprehension of texts.

**RLD 0503 Research and Evaluation in Multidisciplinary Contexts** **3 Credits**

This course examines methods of empirical research and measurement, the role of descriptive and inferential statistics in data assessment, and critical analyses of effective quantitative, qualitative, and mixed methods research approaches. Topics will include: evaluation of current research studies and implications for professional practice, types of assessments (i.e. traditional print and electronic), data for general education teachers and a diversified student population, and the skills needed for effective data-based decision making and sharing of results. Crosslisted with MD 0503.

**RLD 0504 Practicum in Scientifically Research-Based Intervention Practices, Tiers II and III** **3 Credits**

**Prerequisite:** RLD 0503.

Candidates will participate in a semester-long supervised apprenticeship with a master teacher in a lab school or model classroom focused on developing a deeper understanding of reading research and the application of evidence-based practice in a research practicum. Candidates will apply basic research principles learned in RLD 0503, review educational research on effective literacy practice (e.g., the essential components of reading instruction, etc.), and are supervised in designing and implementing a research project in a school setting.

**RLD 0529 Principles of Structured Literacy II: Essentials of Decoding and Encoding** **3 Credits**

**Prerequisite:** RLD 0429 or SE 0429.

This course covers vocabulary and comprehension research and explicit instructional strategies. The candidate will learn about the role of vocabulary development and vocabulary knowledge in comprehension. This course includes research-based comprehension teaching strategies that are appropriate for before, during, and after reading that promote reflective reading (e.g., prediction, prior knowledge, monitoring, think-aloud, text structure, visual representation, mental imagery, summarization, questions-questioning, etc.). Candidates will learn the factors that contribute to deep comprehension including background knowledge, vocabulary, verbal reasoning ability, knowledge of literary structures and conventions, and use of skills and strategies for close reading of text. Semantics, the ability to identify examples of meaningful word relationships or semantic organization and syntax, the ability to distinguish among phrases, dependent clauses, and independent clauses in sentence structure, are presented. This course includes an introduction to discourse organization, explaining the difference between narrative and expository text and knowledge of cohesive devices in text and inferential gaps in the surface of text. Crosslisted with SE 0529.

**RLD 0530 Content Language & Reading Acquisition for English Language Learners and Students with Special Needs** **3 Credits**

This course develops literacy leadership skills to train others and foundational reading skills to be better prepared to teach K-12 students to learn how to read. This course is designed for candidates to learn about the developmental learning needs of culturally and linguistically diverse students, exceptional learners, and bilingual students with special needs, and promotes working in collaborative data teams. The course also explores the similarities and differences between bilingual/TESOL students and students with special needs with a focus on reading skills development (e.g. phonology, morphology, orthography, syntax) and instructional strategies that all teachers can use in their classrooms to support reading development in all students. Crosslisted with SL 0530.

**RLD 0535 Handwriting, Spelling, and Writing Instruction in the Reading and Language Arts Program** **3 Credits**

Candidates will learn research-based principles for teaching letter naming and letter formation, for both manuscript and cursive. Techniques for teaching handwriting fluency will be presented. Candidates will learn about the relationship between transcription skills and written expression. Candidates will learn how to identify children's different levels of spelling development and orthographic knowledge. They will learn about the influence of phonological, orthographic, and morphemic knowledge on spelling. The major components and processes of written expression and how they interact and the developmental expectations for students' writing in the mechanics and conventions of writing, composition, revision, and the editing processes will be covered. The similarities and differences between written composition and text comprehension and the usefulness of writing in building comprehension will also be included. Students will learn how to develop the writing skills of all children, including learners with special needs. This course includes technological applications and assistive technology to support the writing process and evaluation of writing using formal and informal measures.

**RLD 0550 Reading Different Types of Texts and Academic Language:  
Content Area Literacy   3 Credits**

In this course candidates will learn the differences between, and develop comprehension strategies for, both literary/narrative texts and informational/expository texts. Candidates will learn explicit oral language activities (e.g., literature circles, think-pair-share, etc.) and writing activities (e.g., literary response journals, character analyses, etc.) that develop and reinforce comprehension of literary/narrative texts and literary analysis skills. Candidates will learn how to develop study and research skills by using informational/expository texts. Candidates will analyze the role of academic language and background knowledge in reading comprehension. They will recognize the academic language structures (e.g., syntax, grammar, etc.) and functions (e.g., analyzing, justifying, etc.) used in oral and written academic discourse.

**RLD 0560 Principles of Scientifically Research-Based Interventions in  
Reading and Language Arts   3 Credits**

Candidates will learn about basic measurement concepts and principles of test construction (e.g., reliability, validity, norm-referencing, etc.) as well as the differences among screening, diagnostic, outcome, and progress-monitoring assessments. Response to Intervention (RtI) models will be covered. Candidates will practice administering tests and using data from diagnostic surveys and assessments of foundational skills, reading comprehension, and written expression in relation to a student's component profile. The candidates will learn reasonable goals and expectations for learners at various stages of reading and writing development. Other topics in this course will include consideration of environmental, cultural, social factors and special needs that contribute to literacy development, and the use of technology in assessment and reporting.

**RLD 0565 Differential Diagnosis of Reading Disability Subtypes   3 Credits**

Candidates will learn the characteristics of a variety of reading and learning disabilities, including dyslexia, language comprehension and written expression disorders, and how the symptoms may change in response to development and instruction. Theory and practice of literacy interventions, and appropriate commercial instructional materials for individuals experiencing reading difficulties will also be covered with a focus on data-driven interventions to meet the needs of all children, including culturally and linguistically diverse learners. Use of technology to support the remedial reading and remedial language arts program and in reading intervention is included in this course.

**RLD 0583 Tests and Measurement in Reading and Language Arts  
Contexts   3 Credits**

This course introduces candidates to the principles and practices of response to intervention approaches to the prevention and early identification and remediation of reading difficulties. Candidates learn about the essential features of Tier I, Tier II, and Tier III instruction, including common program development and delivery considerations and assessment routines.

**RLD 0584 Guided Reflective Practice in Tier I Reading and Language Arts  
Programming   3 Credits**

This course presents an overview of varied research-based instructional approaches and materials to use in designing and delivering an integrated, comprehensive, and balanced evidence-based reading and writing curriculum. Candidates are provided with the opportunity to explore varied instructional approaches, materials, texts, and classroom routines, and their use in creating a literate environment that fosters reading and writing for diverse student populations. Media Consent and Fingerprinting required.

**RLD 0585 Writing Components and Processes in the Language Arts  
Program   3 Credits**

Candidates learn how to assess students' handwriting, spelling, and writing skills, and how to teach writing across the elementary, middle, and secondary continuums, with consideration for the use of a wide range of texts and strategies designed to foster the reading-writing connection. The use of Assistive Technology and specialized instructional strategies and programs will be explored as a means to facilitate students' ability to construct quality writing samples.

**RLD 0586 Diagnosis and Remediation of Reading and Language Arts  
Difficulties   3 Credits**

This course introduces candidates to the varied reasons why students may not be responding to the provision of intensive targeted reading and writing interventions. Candidates learn how to administer a range of formal diagnostic assessment measures to students and how to analyze findings for the purpose of informing improved intervention programming for students. This course includes a six to eight hour supervised fieldwork experience. Fingerprinting required.

**RLD 0587 Practicum in Tier II Reading and Language Arts Intervention  
Practices   3 Credits**

This course presents an overview of Tier II reading and language arts intervention practices for small groups of students. Candidates learn how to apply their knowledge of benchmark and progress monitoring practices to plan and evaluate instruction for individual and groups of students, how to design and implement flexible grouping techniques, how to prepare data walls and progress monitoring reports to effectively communicate students' response data to colleagues and parents. This course includes a supervised practicum experience. Media Consent and Fingerprinting required.

**RLD 0588 Practicum in Tier III Reading and Language Arts Intervention  
Practices   3 Credits**

This course presents an overview of Tier III reading and language arts intervention practices for individual students in Grades 1-12, including students with dyslexia. Candidates in this course learn about structured literacy interventions and engage in supervised work with an assigned student in a practicum context. Candidates in this course will: administer a comprehensive literacy screening assessment to an assigned student in order to develop an individualized scope and sequence of instruction, design and deliver a series of diagnostic-prescriptive structured literacy interventions to an assigned student in the context of a supervised practicum experience, develop and implement an individualized progress-monitoring plan, and share students' progress with parents/guardians in the context of an end of term conference. Media Consent and Fingerprinting required.

**RLD 0591 Practicum in Scientifically Research-Based Core Literacy  
Practices   3 Credits**

This is a semester-long supervised apprenticeship with a master teacher in the model school or other model classroom. Candidates will have the opportunity to apply reading theories and other research-based methodologies in a general education classroom setting. Candidates will be responsible for assessing children and interpreting data, writing lesson plans based on the instructional needs of the children, and delivering evidence-based reading instruction. Candidates will analyze criteria for selecting reading materials and other online and offline resources for different instructional purposes and to address students' various literacy needs and diverse cultural backgrounds. During this practicum candidates will also learn characteristics involved in creating a literacy-rich classroom environment that values diversity and promotes reading, vocabulary, and concept development through purposeful discussions, reading and writing.

<b>RLD 0592 Practicum in Structured Literacy Interventions</b>	<b>3 Credits</b>	<b>RS 0101C Exploring Religion: Common Questions, Traditional Response</b>	<b>3 Credits</b>
A supervised apprenticeship with a master teacher in the summer program will focus on diagnosis and intervention for individuals with reading and language learning disabilities. Candidates will conduct an individual diagnostic evaluation for a small group of children with reading difficulties and provide a remedial reading intervention program for the children tested. Candidates will use formal and informal assessment tools appropriate for children from diverse cultural and linguistic backgrounds. Recommendations for remediation will also include suggestions for use of assistive technology tools.			<b>Attributes:</b> JST Judaic Studies Minor
<b>RLD 0594 Designing, Implementing, and Leading the School Literacy Intervention Program: Capstone Seminar</b>	<b>3 Credits</b>	This subsection of RS 0101 examines the major questions addressed by most world religions, with special emphasis on how they are answered in a specific major tradition. Topics include the nature of the sacred and its relationship to human persons; the problem of evil and innocent suffering; religion's call for social responsibility; and the nature and function of ritual.	
<b>RLD 0594 Designing, Implementing, and Leading the School Literacy Intervention Program: Capstone Seminar</b>			<b>RS 0101D Exploring Religion: Religion in a Comparative Key</b>
Candidates will learn the essential components of a classroom environment that support and promote literacy development with a focus on planning instruction for K-6th graders in the school reading and language arts program. There will be a particular emphasis on children who are experiencing difficulties in developing literacy, addressing the special needs of diverse learners. Students will also learn how to facilitate meetings with a literacy focus including grade-level literacy team meetings, literacy leadership meetings, data team meetings, data analysis, and RTI meetings. This course will also support students' ability to design and deliver literacy-focused professional development workshops.			<b>3 Credits</b>
			This subsection of RS 0101 examines different kinds of religious experience, doctrine, and practice through a close examination of two different religious traditions, engaging the traditions as these appear in a variety of cultural contexts.
			<b>RS 0101E Exploring Religion: Peoples of the Book, Sacred Texts, and Their Communities</b>
			<b>3 Credits</b>
			<b>Attributes:</b> JST Judaic Studies Minor
			This subsection of RS 0101 examines the relationship between sacred text and the historical communities of Judaism, Christianity and Islam. Focusing on shared narratives, such as Adam and Eve in the Garden, the course illustrates the different ways that texts are interpreted and the various roles that Scripture plays in these communities.
			<b>RS 0201 Hebrew Bible/Old Testament</b>
			<b>3 Credits</b>
			<b>Attributes:</b> JST Judaic Studies Minor
			<b>Prerequisite:</b> RS 0101.
			This course will survey the texts that are normative for Judaism and Christianity today; the Hebrew Bible (TaNaKh) and the Christian Old Testament. These texts will be studied according to a wide range of modern methods of biblical criticism which consider carefully their literary and historical aspects. Special effort will be made to situate these texts within their historical and cultural setting in the ancient near east.
			<b>RS 0205 Women in the Bible</b>
			<b>3 Credits</b>
			<b>Attributes:</b> JST Judaic Studies Minor, WSGF Women, Gender, and Sexuality Studies: Gender Focused
			<b>Prerequisite:</b> RS 0101.
			This course examines stories about women that appear in both Jewish and Christian Scriptures by applying various methodological approaches. Conventional methods of interpretation, namely literary and historical-critical, will be used and critiqued. While the focus will be on images of women in the Hebrew Bible/Old Testament (viz., the Jewish TaNaKh and the Christian Scriptures), other non-canonical stories about women will also be considered. This course does not presume any previous knowledge of the biblical texts themselves or biblical methodology.
			<b>RS 0207 Prophetic and Apocalyptic Voices</b>
			<b>3 Credits</b>
			<b>Prerequisite:</b> RS 0101.
			This course studies the major prophetic voices of the Hebrew and Christian scriptures, concentrating on each prophet's unique vision of God and of the requirements of justice. The course blends these themes with the later apocalyptic consciousness, which demands rectification of the wrongs of hatred and injustice, and offers hope for a better future.
			<b>RS 0209 Jewish Interpretations of Scriptures</b>
			<b>3 Credits</b>
			<b>Attributes:</b> JST Judaic Studies Minor
			<b>Prerequisite:</b> RS 0101.
			This course explores ways in which Jews have understood the Hebrew Bible from the first centuries of the Common Era through today. Focusing on specific biblical texts, the course draws interpretations from early classical, legal, and non-legal rabbinic material; medieval commentaries and codes; mystical literature; and modern literary, theological sources.

## Religious Studies (RS)

<b>RS 0101 Exploring Religion (Shell)</b>	<b>3 Credits</b>	<b>RS 0201 Hebrew Bible/Old Testament</b>	<b>3 Credits</b>
This course invites students to explore the religious dimensions of human experience, emphasizing the themes of scripture, community and practice. In a critical appraisal of one or more of the great religious traditions of the world, students will analyze sacred texts in context, discover how social patterns shape religious communities, and survey a wide variety of religious devotions and practices, both personal and communal. Students in this course will learn to investigate the religious lives, beliefs, experiences and values of others, in their scope and diversity, respecting both the differences from, and the similarities to, their own. While several sections of the course will offer a variety of lenses for such a critical understanding, all sections will inquire about the relationship between religion and culture, employing the tools of the humanities and the social sciences. See RS 0101A, RS 0101B, RS 0101C, RS 0101D, RS 0101E.			
<b>RS 0101A Exploring Religion: Religion and the Critical Mind</b>	<b>3 Credits</b>	<b>RS 0205 Women in the Bible</b>	<b>3 Credits</b>
This subsection of RS 0101 examines some of the themes in the study of religion and offers a comparative analysis of the nature, function, and purpose of religion as found in a variety of models of religion. A wide variety of contemporary religious practices will serve as discussion points for scholarly analysis.			
<b>RS 0101B Exploring Religion: Asian Religions</b>	<b>3 Credits</b>	<b>RS 0207 Prophetic and Apocalyptic Voices</b>	<b>3 Credits</b>
<b>Attributes:</b> WDIV World Diversity			
This subsection of RS 0101 examines the basic religious systems of India and China, including their fundamental differences, performative functions, and worldviews. The course evaluates Euro-American theories of religion in light of Asian religious expressions.			
<b>RS 0101C Exploring Religion: Common Questions, Traditional Response</b>	<b>3 Credits</b>	<b>RS 0209 Jewish Interpretations of Scriptures</b>	<b>3 Credits</b>
<b>Attributes:</b> JST Judaic Studies Minor			
<b>Prerequisite:</b> RS 0101.			
This subsection of RS 0101 examines the major questions addressed by most world religions, with special emphasis on how they are answered in a specific major tradition. Topics include the nature of the sacred and its relationship to human persons; the problem of evil and innocent suffering; religion's call for social responsibility; and the nature and function of ritual.			
<b>RS 0101D Exploring Religion: Religion in a Comparative Key</b>	<b>3 Credits</b>		
This subsection of RS 0101 examines different kinds of religious experience, doctrine, and practice through a close examination of two different religious traditions, engaging the traditions as these appear in a variety of cultural contexts.			
<b>RS 0101E Exploring Religion: Peoples of the Book, Sacred Texts, and Their Communities</b>	<b>3 Credits</b>		
<b>Attributes:</b> JST Judaic Studies Minor			
<b>Prerequisite:</b> RS 0101.			
This subsection of RS 0101 examines the relationship between sacred text and the historical communities of Judaism, Christianity and Islam. Focusing on shared narratives, such as Adam and Eve in the Garden, the course illustrates the different ways that texts are interpreted and the various roles that Scripture plays in these communities.			

<b>RS 0210 Introduction to Judaism</b>	<b>3 Credits</b>	<b>RS 0221 Good News of the Gospels</b>	<b>3 Credits</b>
<b>Attributes:</b> JST Judaic Studies Minor		<b>Attributes:</b> CARS Catholic Studies: Religious Studies	
<b>Prerequisite:</b> RS 0101.		<b>Prerequisite:</b> RS 0101.	
This course examines ways in which Judaism has been defined and has developed as both a way of thought and a way of life. Included will be discussions of central Jewish concepts (e.g., covenant, holiness, and commandment), holidays, life-cycle ceremonies, and contemporary Jewish religious movements.		This course examines the Gospels of Matthew, Mark, Luke, and John according to contemporary exegetical and literary methodologies. The course examines and compares the theological positions of early Christianity as represented by each writer and by other early Christian gospels.	
<b>RS 0211 History of the Jewish Experience</b>	<b>3 Credits</b>	<b>RS 0222 Writings of John</b>	<b>3 Credits</b>
<b>Attributes:</b> JST Judaic Studies Minor		<b>Attributes:</b> CARS Catholic Studies: Religious Studies	
<b>Prerequisite:</b> RS 0101.		<b>Prerequisite:</b> RS 0101.	
The course examines the origin and development of Judaism and the Jewish people. It begins with the Hebrew Bible as the source of Judaism and follows its development to the modern era. This overview introduces the Jewish religion, its history, and development.		This course examines the text of the gospel and epistles attributed to John, placing particular emphasis upon the recurring themes in these writings, the distinctive view of Christianity they represent, and the development of early Christianity to which they witness.	
<b>RS 0213 Jews and Judaism in America</b>	<b>3 Credits</b>	<b>RS 0228 Early Christianity</b>	<b>3 Credits</b>
<b>Attributes:</b> ASRS American Studies: Religion, ASUP American Studies Upper Level, JST Judaic Studies Minor, UDIV U.S. Diversity		<b>Attributes:</b> CARS Catholic Studies: Religious Studies	
<b>Prerequisite:</b> RS 0101.		<b>Prerequisite:</b> RS 0101.	
What has it meant and what does it mean today to be a Jew in America? Viewing Judaism and Jewishness as inseparable from one another, Jews remain a distinct though by no means homogeneous religious and ethnic group in American society. This course explores the religious, cultural, social, economic, and political diversity among American Jews as well as distinctive beliefs, concerns, and experiences that continue to unite them. The course gives special attention to issues concerning immigration, acculturation, gender, and Black-Jewish relations.		This course presents a historical overview of early Christianity between the end of the first century and the close of the sixth. The focus of the course is on the institutional and theological development of the early Church after the final books of the New Testament were written. Topics examined include: Jesus and Judaism, Christianity and the Roman Empire, heresies of the Early Church, and the development of Christian theology (in particular the doctrines of Christ and the Trinity).	
<b>RS 0215 Women in Judaism</b>	<b>3 Credits</b>	<b>RS 0230 Introduction to Catholicism</b>	<b>3 Credits</b>
<b>Attributes:</b> JST Judaic Studies Minor, WSGF Women, Gender, and Sexuality Studies: Gender Focused		<b>Attributes:</b> CARS Catholic Studies: Religious Studies	
<b>Prerequisite:</b> RS 0101.		<b>Prerequisite:</b> RS 0101.	
This course examines ways in which women have understood and experienced Judaism from the Biblical period through the present, drawing on historical writings, novels, theological essays, and films and giving particular attention to the traditional religious roles and status of women, the many ways in which women have understood Jewish self-identity, and recent feminist efforts to re-evaluate and transform contemporary Jewish life.		This introduction to the beliefs, doctrines, ideas, and practices that shape the unity and diversity of the Catholic tradition explores theological, devotional, and spiritual forms of expression in their historical and cultural contexts in order to appreciate the particularity of Catholic themes. The course also considers how these themes engage contemporary Catholic life and exercise an influence on the wider culture.	
<b>RS 0218 Faith After the Holocaust</b>	<b>3 Credits</b>	<b>RS 0231 The Problem of God</b>	<b>3 Credits</b>
<b>Attributes:</b> JST Judaic Studies Minor, PJST Peace and Justice Studies		<b>Attributes:</b> CARS Catholic Studies: Religious Studies	
<b>Prerequisites:</b> RS 0101.		<b>Prerequisite:</b> RS 0101.	
This course explores the complexity and horror of the holocaust and its contemporary historical, social, political, and theological implications. What historically made the attempted annihilation of European Jewry possible and how were some Jews able to survive? Was the holocaust unique? Could it have been prevented? What impact did it have on Western faith in humanity and God? What lessons, particularly in light of the resurgence of anti-semitism in Europe today, can it teach us?		This historical and theological examination of the Christian doctrine of God pays special attention to the problematic aspects of the development of this doctrine through the ages, exploring this development in biblical sources; patristic, medieval, Reformation, and modern times. The course concludes with a consideration of the challenge of post-Enlightenment atheism and of the efforts of contemporary theologians to recast the classical conception of God.	
<b>RS 0220 Writings of Paul</b>	<b>3 Credits</b>	<b>RS 0232 Jesus Christ: Yesterday and Today</b>	<b>3 Credits</b>
<b>Attributes:</b> CARS Catholic Studies: Religious Studies		<b>Attributes:</b> CARS Catholic Studies: Religious Studies	
<b>Prerequisite:</b> RS 0101.		<b>Prerequisite:</b> RS 0101.	
This course examines the texts and recurring themes of the writings attributed to Paul, with particular emphasis on Paul's treatment of ethical situations, community, and religious experience.		A systematic treatment of the person and work of Jesus Christ, this course examines different interpretations of the meaning of the Christ event from the scriptural sources to contemporary developments.	

**RS 0235 Liberation Theology****3 Credits**

**Attributes:** BSAH Black Studies: Arts and Humanities, BSCC Black Studies Component Course, CARS Catholic Studies: Religious Studies, HASM Humanitarian Action Minor Skills/Method Course, LCEL LACS Minor. Elective, UDIV U.S. Diversity

**Prerequisite:** RS 0101.

This course analyzes contemporary theological movements that emphasize the relationship of religious faith and praxis to the sociopolitical realm. The course treats at length the development of the Latin American theology of liberation and examines its theological principles, tracing the influence of this theological outlook on other Third World theologies and on North American and European theological reflection. The course proceeds to a constructive proposal for a contemporary political theology.

**RS 0236 Christian Feminist Theology****3 Credits**

**Attributes:** CARS Catholic Studies: Religious Studies, UDIV U.S. Diversity, WSGF Women, Gender, and Sexuality Studies: Gender Focused

**Prerequisite:** RS 0101.

Participants examine some of the key issues being raised in religion by contemporary feminist thinkers. After a brief examination of the history of patriarchy in the Christian tradition and earlier responses by pre-modern feminists, the course considers issues such as feminist methodology, feminist perspectives on traditional Christian doctrines of God, creation, anthropology, Christology, and eschatology. The course concludes with a discussion of the nature of authority and an examination of a feminist theology.

**RS 0238 Evil****3 Credits**

**Attributes:** CARS Catholic Studies: Religious Studies

**Prerequisite:** RS 0101.

This course explores the problem of evil from the perspectives of theology and philosophy. The course considers God and evil, classical theodicies (reasonable justifications of God before the prevalence of evil), modern philosophical accounts of evil, social evil, and the possibility of belief in the face of evil. Within the context of these subjects, the course addresses the following questions: What is evil? What are the roots of evil? What effect does one's understanding of evil have on one's understanding of the human being, of God, and of religion? What is our responsibility in the face of evil?

**RS 0239 Last Things: The Catholic Belief in Life After Death****3 Credits**

**Attributes:** CARS Catholic Studies: Religious Studies

**Prerequisite:** RS 0101.

This course first explores the Christian understanding of life after death, affirmed in such beliefs as the resurrection of the body, the last judgment, heaven and hell, and the forgiveness of sins. It then goes on to examine the Catholic tradition's particular contributions to these beliefs in its teachings on purgatory and the communion of the saints. The course asks why these ancient beliefs continue to resonate in contemporary popular culture, and examines modern theological efforts to re-construct these hopeful beliefs for our own times.

**RS 0240 The Medieval Church****3 Credits**

**Attributes:** CARS Catholic Studies: Religious Studies

**Prerequisite:** RS 0101.

This course surveys the development of Christianity in medieval Western Europe through the lens of the Western/Latin Church. It presents a broad history of the social, political and religious aspects of the Church as found in a variety of primary sources: mystical and theological writings, hagiographical literature and rules for monastic communities, and official Church documents. Through these sources students are introduced to the critical analysis of primary texts (dating from c. 300-1500) by giving proper attention to the social and cultural context in which they were written. Topics discussed in this course include: monasticism, the rise of papal power, the First Crusade, and the development of cathedrals and universities.

**RS 0241 Encountering God in Medieval Christian Thought****3 Credits**

**Attributes:** CARS Catholic Studies: Religious Studies

**Prerequisite:** RS 0101.

This course presents a historical overview of religious thought in the medieval era (c. 500-1500), with a focus on the institutional and theological developments within Christian monasteries and universities. We will first treat the development of Benedictine monasticism and the types of theological literature associated with the monasteries, before looking at the development of the University system in Western Europe and the types of theology produced in the schools. Finally, we will treat the pervasive presence of "mystical theologians" who were often neither monks nor university professors, but developed a rich theology grounded in human experience.

**RS 0244 Finding God in All Things: The Spiritual Legacy of Ignatius of Loyola****3 Credits**

**Attributes:** CARS Catholic Studies: Religious Studies

**Prerequisite:** RS 0101.

The course aims at a deeper understanding of the origins, development, and present forms of Ignatian spirituality. Students are invited to study in an open yet critical fashion: the life and history of Ignatius of Loyola; the founding and development of the Society of Jesus; the historical context of the major themes of Jesuit spirituality and ways in which these have been worked out in history; strengths, weaknesses, and potential lacunae of this particular charism in the church; its relevance to contemporary spiritual needs, especially in the context of university life; its potential for nurturing lives characterized by love for others and justice for the world. Students are also exposed to the dynamics of the Spiritual Exercises; a variety of prayer forms developed by Ignatius; and a service learning project. The course culminates in a creative project designed by each student.

**RS 0245 The Reformation Era****3 Credits**

**Attributes:** CARS Catholic Studies: Religious Studies

**Prerequisite:** RS 0101.

Participants study the religious reform of the 16th century. The course begins by probing the seeds of reform in the late scholastic tradition and in popular spirituality, and proceeds by tracing the development of the ideas and impact of the reformers: Luther, Zwingli, Calvin, Munzer, and Schwenckfeld. The course concludes with an investigation of the Roman Catholic response to reform in the events of the Council of Trent and the Counterreformation.

**RS 0248 Faith and Reason: The Catholic Intellectual Tradition 3 Credits****Prerequisite:** RS 0101.

This course leads students to an understanding of the characteristically Catholic ways of engaging the world intellectually. The course examines key ideas of symbol, analogy and sacrament, and central Catholic motifs such as theology as "faith seeking understanding," the synthesis of faith and reason and the peculiarly Catholic expression of Christian humanism, as expressed in the work of Catholic philosophers and intellectuals. It attends to feminist and non-Western critiques of the tradition, to Catholicism's approach to some contemporary social problems, and to some examples of the role of the Catholic imagination in the arts.

**RS 0249 American Catholic Theologians 3 Credits****Attributes:** ASRS American Studies: Religion, ASUP American Studies

Upper Level, CARS Catholic Studies: Religious Studies

**Prerequisite:** RS 0101.

This lecture/reading course gives students insight into the modern development of Catholic theology in America and what makes it specifically American. Discussion/analysis covers the work of Gustav Weigel, John Courtney Murray, George Tavard, Frank Sheed, Walter Burghardt, and Robley Whitson.

**RS 0250 Contemporary Morality: Basic Questions 3 Credits****Attributes:** CARS Catholic Studies: Religious Studies**Prerequisite:** RS 0101.

This course introduces the fundamental concepts in moral theology, drawing on major traditions in contemporary Christian thought. The course examines the moral foundations of conscience, freedom and responsibility, virtue and character, and methods of moral decision-making. To deepen the study of basic questions in Christian morality, the course concludes by examining selected applied issues in contemporary morality.

**RS 0252 Contemporary Moral Problems 3 Credits****Attributes:** CARS Catholic Studies: Religious Studies, EDCG Educational Studies Cognate**Prerequisite:** RS 0101.

This theological examination of contemporary moral problems considers selected ethical issues in contemporary society and leading approaches to moral decision-making. The course investigates moral problems such as euthanasia and physician-assisted suicide, the death penalty, violence and just war theory, bioethics, sexual and reproductive ethics, global poverty, environmental ethics, and issues in business and legal ethics.

**RS 0253 The Morality of Marriage in Christian Perspective 3 Credits****Attributes:** CARS Catholic Studies: Religious Studies**Prerequisite:** RS 0101.

This course explores marital commitments by exploring the many phases of partnership - courtship, marriage, intimacy, parenting, death - and the specialized skills or virtues these phases require. The course considers questions such as: What kinds of communities, especially faith communities, support marital commitments? What are the forces of society and culture that might threaten them? How might vices, such as physical or sexual abuse, alcoholism, and addiction, erode commitments? The course concludes by assessing how virtuous families might promote peace and justice, and developing an integrated theological account of the moral project we call marriage.

**RS 0255 Catholic Social Teaching 3 Credits****Attributes:** CARS Catholic Studies: Religious Studies, PJST Peace and Justice Studies**Prerequisite:** RS 0101.

This course examines the modern teachings of the Catholic Church on peace and justice; Christian/humanist attitudes towards war; pacifism and the just war theory; and changes in global political and economic structures that seem necessary to ensure a peaceful and just world order.

**RS 0257 Christian Spirituality 3 Credits****Attributes:** CARS Catholic Studies: Religious Studies**Prerequisite:** RS 0101.

This course examines the foundations and elements of a spirituality of everyday life from a lay perspective. It considers issues related to the spirituality of university life and to one's broader, future developmental calling on personal, spiritual, and professional levels. Themes of the course include historical overview of Christian spiritual traditions; key theological foundations such as creation, incarnation, doctrine of the Holy Spirit, grace, priesthood of all believers, action, and contemplation; exploration of the practical implications of such a spirituality; and reflection on action for justice.

**RS 0260 Religion in the United States 3 Credits****Attributes:** ASRS American Studies: Religion, UDIV U.S. Diversity**Prerequisite:** RS 0101.

This course explores the story of religion in America from a multicultural, multi-faith perspective. Students will examine how different religious peoples and traditions have interacted across time and how these interactions and exchanges have both complicated and enriched the American religious landscape. Much attention will be paid to those voices often left out of the master narrative of American religion for reason of race, gender, ethnicity, class, or even peculiarity. The course is a survey, thus students will encounter a variety of topics varying from indigenous religious practices, revivalism, the early roots of traditions like Judaism and Islam, new religious movements, to secularization.

**RS 0262 Afro-Caribbean and African American Religions: Shout, O Children! 3 Credits****Attributes:** ASRS American Studies: Religion, BSAH Black Studies: Arts and Humanities, BSFC Black Studies Focus Course, UDIV U.S. Diversity**Prerequisite:** RS 0101.

This course examines the evolution and innovation of the religions of African people as they were shaped through the middle passage, merged with other religions during the institution of slavery, and created anew on the American continent and throughout the Caribbean Sea. Students will examine how Caribbean traditions like Vodou and Santeria and American iterations of Christianity and Islam arose out of and against institutions and cultures that sought to subjugate them. Further, students will explore how elements of black religious life, from preaching style to music to liturgy to religious thought, have left an indelible mark upon American and Caribbean religious cultures and traditions.

**RS 0263 New Religious Movements in America****Attributes:** ASUP American Studies Upper Level**Prerequisite:** RS 0101.

This course examines new religious movements, more pejoratively known as "cults," and their schismatic cousin "sects," on their own terms and in their American context. Students examine multiple religious traditions, including those born and grown in the United States, as well as those imported from outside the United States. Among those traditions studied are the Church of Latter-day Saints, the Theosophical Society, the Branch Davidians, and Scientology. Throughout the course, students seek to answer the following questions: why do new religious traditions arise, how do they thrive, and does the context of American culture have anything to do with their success or failure?

**RS 0267 Mormonism: An American Church****3 Credits****Attributes:** ASRS American Studies: Religion**Prerequisite:** RS 0101.

Who are the Mormons? This course seeks to answer this very question. Beginning with the birth of its prophet Joseph Smith and proceeding into Mormon life in the 21st century, the course traces the history of Mormonism as it moved from millennial religious movement to formal Church. We will examine the scripture, beliefs, practices, and mission of Mormonism and how they function within the church and within the Mormon community. We will also explore the paradox of Mormonism's controversial reputation and its popularity, examining how Mormons have combatted negative perceptions and adapted in order to survive – and, ultimately, thrive.

**RS 0268 American Catholic History****3 Credits****Attributes:** CARS Catholic Studies: Religious Studies**Prerequisite:** RS 0101.

This course traces the development of American Catholicism from its origins through the extraordinary 19th century expansion to the point today at which 22% of U.S. citizens are Catholic. We will examine how Catholics fared before they had priests or sacramental ministry, how the early church developed in the age of Enlightenment Catholicism, what happened to transform the church during the years of European immigration, and how Catholics struggled for acceptance. We end by tracing the present day decline of cultural Catholicism, the assimilation of Catholics into mainstream American culture and the increasing Latinization of the church.

**RS 0270 Introduction to Islam****3 Credits****Attributes:** WDIV World Diversity**Prerequisite:** RS 0101.

This course introduces Islam as a global religion and civilization. After a brief historical overview, the course focuses on the foundational concepts of Islam - Quran, Prophet, Ritual and Community, and then analyzes how these concepts are interpreted in the main intellectual traditions, in the ways that Islam is practiced in different cultures and in the works of modern thinkers.

**RS 0273 Islamic Ethical and Legal Thought****3 Credits****Attributes:** WDIV World Diversity**Prerequisite:** RS 0101.

This course examines the different ways that ethical and legal thought have been formulated and practiced within Islam. Students will gain a basic understanding of Islamic law and the legal schools associated with it. The nature of Muslim ethics will be explored in a number complementary and competing discourses including the law, Muslim philosophy, Sufism, theology, and political theory. Students will analyze pre-modern and modern case studies. Topics to be discussed include governance, war, sex, and biomedical ethics. Our readings will consist of primary sources in translation and current secondary literature.

**RS 0275 Islam in America****3 Credits****Attributes:** ASRS American Studies: Religion, ASUP American Studies

Upper Level, UDIV U.S. Diversity

**Prerequisite:** RS 0101.

This course is a survey of Muslim life and religious movements connected to Islam in North America. The course traces the history of Islam on the continent from the Atlantic slave trade to the post-9/11 era. We will investigate the many ways in which Islam, as both a religion and idea, has appeared on the American horizon and in the American imagination. The historic diversity of Muslim communities on the continent will be explored through their respective beliefs, cultures, and sense of identity. Special attention will be paid to the African-American and Immigrant Muslim communities.

**RS 0276 Islamic Theology****3 Credits****Prerequisite:** RS 0101.

This course is a survey of major tenets of Muslim belief, points of difference, and schools of theological thought. We will explore important points of faith and investigate the debates that have emerged over the course of Islamic history. Special attention will be paid to the areas of doctrinal formulation, scholastic theology and mystical thought. Our primary readings will consist of both primary sources in translation and current secondary literature.

**RS 0280 Hinduism****3 Credits****Attributes:** WDIV World Diversity**Prerequisite:** RS 0101.

This course introduces the seminal texts, concepts, and images of the major religious tradition of India. Topics include Vedic ritualism; Upanishadic mysticism; yoga meditation; the Bhagavad Gita; the caste system; Vedanta philosophy; the cults of Rama, Krishna, Shiva, and the Goddess; and Gandhi's philosophy of non-violent action. The course views Hinduism as a historical phenomenon, a formative influence on Indian culture and society, and a response to the human condition.

**RS 0285 Buddhism****3 Credits****Attributes:** WDIV World Diversity**Prerequisite:** RS 0101.

This course explores the Indian Buddhist tradition, from its beginning in the life of Shakyamuni Buddha through the present revival of neo-Buddhism in the activism of oppressed classes. The course considers the early formative ideas of the Buddha - the Awakened One - as they unfold in the course of Indian history and society, and discusses Buddhist meditation and philosophy as procedures devised to elicit the awakened state. Using written and visual works, the course examines developments in Buddhist religious orders, lay social life, and the rise of the Great Vehicle tradition. Art and archaeology provide a context for Buddhism's compelling missionary activity throughout Central and Southeast Asia.

**RS 0286 Buddhism in the United States****3 Credits****Attributes:** UDIV U.S. Diversity**Prerequisite:** RS 0101.

This course will explore the history, sources and forms of Buddhism that have prospered in the United States since the mid 19th century, with the emigration of Chinese to California. Subsequent developments will also be examined: Pure land, beat zen, hippie Buddhism, Tibetan Buddhism, and emigrant communities from Japan, China and Southeast Asia among others. The "two communities" model (impoverished emigrant vs. wealthy convert Buddhism) will be explored. Visits to Buddhist centers in the Northeast will be part of the program, and if possible, visits from Buddhist representatives to the class. Film, literature and other media will inform the course as well.

**RS 0289 Tantrism****Attributes:** WDIV World Diversity**Prerequisite:** RS 0101.

The course covers the medieval formation of tantrism, a pan-Indian approach to religion that was to develop separate but related subcultures in Buddhism, Hinduism, and Jainism. With its ability to sacralize formulations of power and sexuality, it went on to become the most widely spread form of Buddhism, with premodern forms found in Tibet, China, Japan, and Eastern Europe. Recent expressions have been found all over the world. The course examines questions of tantra's medieval origins, its espousal of antinomian conduct, its geographical spread, attempts at its domestication, and its recent developments in India and abroad.

**RS 0299 Special Topics (Shell)****3 Credits****Prerequisite:** RS 0101.

Students and faculty in this course will engage in an in-depth exploration of a significant topic in the field of Religious Studies. The content will vary in successive offerings of this course, depending on the professor. The course may be repeated with the consent of the professor.

**RS 0300 Second Temple Judaism and the Dead Sea Scrolls** **3 Credits****Attributes:** JST Judaic Studies Minor

**Prerequisites:** RS 0101 and one 200-level Religious Studies course. The Dead Sea Scrolls have rightly been called the greatest manuscript discovery of the twentieth century. Discovered in 1947, they have made a tremendous impact on how scholars today understand Judaism and Christianity in antiquity. Our examination of the community, texts, and archeology of the Dead Sea Scrolls will begin with a study of the Second Temple Period (520 BCE-70 CE), one of the most important in the history of Judaism. This course will examine the political, social, and theological developments of this period so that the community of the Dead Sea Scrolls and their writings may be situated within their proper context. Students will learn to read primary texts closely and secondary texts critically as they consider the influence and relationship between texts and their community.

**RS 0315 Modern Jewish Theology****3 Credits****Attributes:** JST Judaic Studies Minor

**Prerequisites:** RS 0101 and one 200-level religious studies course. This course explores ways in which Jews have sought to know God. While Judaism has long maintained that ultimately God is unknowable, divine and human action, reason, revelation, mystical insight, and prayer are among the paths taken by Jews to gain theological knowledge. Included will be a discussion of works by several 19th- through 21st c. theologians (e.g., Buber, Baeck, Rosenzweig, Heschel, Fackenheim, Greenberg, Plaskow) in drawing on these paths and in discussing such topics as the nature of the divine covenant, the role of human autonomy, liturgical images of God, and faith after Auschwitz.

**RS 0325 Quest for the Historical Jesus****3 Credits****Prerequisites:** RS 0101 and one 200-level religious studies course.

This course examines the increasingly public debate over whether an adequate basis exists for reconstructing a description of the life of Jesus of Nazareth. It examines the evidence available from all sources, the criteria by which that evidence has been interpreted, and the resulting, often contradictory, portrayals. The course also discusses the relationship between this "historical Jesus" and the subsequent faith tradition of Christianity.

**3 Credits****RS 0343 The Papacy****3 Credits****Attributes:** CARS Catholic Studies: Religious Studies, ISIF Italian Studies: Italy-Focused

**Prerequisites:** RS 0101 and one 200-level religious studies course. This survey of the Roman Catholic papacy, generally focuses on a single figure, theme, or period, and places that figure, theme, or period within the larger historical, cultural, and ecclesial context. A significant part of the course treats theological issues, using as texts either papal writings, significant encyclicals, or conciliar statements and actions. The course also includes a critical assessment of the role of the papacy within the Roman Catholic Church and a consideration of the role of the papacy in interreligious dialogue and world affairs.

**RS 0350 The Classic: Truth in Religion and the Arts****3 Credits****Prerequisites:** RS 0101 and one 200-level religious studies course.

This course examines the idea of the classic as a model for establishing relationships between religious language on the one hand, and poetic discourse and artistic expression on the other. What truth do classics lay claim to and how do they embody it? The course compares secular and religious classics before investigating the value of the classic model in the process of doing theology.

**RS 0354 Saints and Sinners: Images of Holiness in Contemporary Fiction****3 Credits****Attributes:** CARS Catholic Studies: Religious Studies

**Prerequisites:** RS 0101 and one 200-level religious studies course. This course examines the complexity of current understandings of what it is to be holy. It begins with a brief consideration of traditional models of holiness. It turns next to several influential theories of spiritual growth, and then, in the light of these theories, looks at a series of 20th-century novels that examine the idea of holiness. Authors vary but include Georges Bernanos, Shusaku Endo, Mary Gordon, Graham Greene, David Lodge, Flannery O'Connor, Gloria Naylor, Muriel Spark, and Jean Sullivan.

**RS 0360 I'm Spiritual, Not Religious: The American Spiritual Tradition****3 Credits****Attributes:** ASRS American Studies: Religion, ASUP American Studies Upper Level

**Prerequisites:** RS 0101 and one 200-level religious studies course. This course examines a strand of anti-institutionalism in American religion, one, which has culminated in the increasingly popular and ubiquitous phrase, "I'm spiritual, but not religious." The claim to spirituality, but not to religiosity, has a rich history in the United States context, beginning in the earliest periods of European settlement. In this course, students will investigate the evolution of this thoroughly American phenomenon across U.S. history and through the examples of spiritual Americans. Students will consider whether the phrase, "I'm spiritual, but not religious," though often intended as a statement of one's separateness from religious institutions, has become the marker of a distinctive religious affiliation.

**RS 0363 Religious Values in Film****3 Credits****Prerequisites:** RS 0101 and one 200-level Religious Studies course.

This course focuses on the search for meaning in human life as experienced and depicted in 12 films by distinguished filmmakers. The first six films mirror this search in personal life, asking in various ways whether we are isolated and alone or linked and dependent on others. They also grapple with the problem of evil and the experience of salvation. The second six films concern themselves with the meaning of life in society. In different historical contexts they ask whether the universe is indifferent or friendly to our community building, and raise the problem of God and the religious significance of secular achievement.

**RS 0379 Islam, Race, Power****3 Credits**

**Prerequisites:** RS 0101 and one 200-level Religious Studies course. Students will undertake a critical investigation of "race" and "ethnicity" within Islam from the classical period to the present. The course examines how different Muslims approached the concepts as well as how those concepts were applied to or imposed upon particular Muslim communities. The historical experience of Black Muslims serves as a recurring case study. Moreover, the relationship of race to power is also a central analytical theme. Topics to be discussed include the construction of "race," slavery and its abolition, the Black American Muslim experience, and Muslim theologies of liberation and resistance. The course is research and writing intensive.

**RS 0398 Independent Study****1-3 Credits**

**Prerequisites:** RS 0101 and one 200-level Religious Studies course. Students, in consultation with a department director, define their course of study.

**RS 0399 Religious Studies Seminar****3 Credits**

**Prerequisites:** RS 0101 and one 200-level Religious Studies course. This seminar offers an in-depth investigation of a significant figure, issue, or problem in religious studies. Enrollment requires the permission of the instructor.

## Russian (RU)

**RU 0110 Elementary Russian I****3 Credits**

Designed for students with no prior experience with Russian or whose placement scores are in the range for this course level. This course, the first in a two-semester sequence, teaches the essentials of pronunciation, structure, and usage, allowing students to acquire the skills of listening, speaking, reading, and writing. Language cultures are explored through a variety of media. Students attend three classes per week and do mandatory online work determined by the instructor.

**RU 0111 Elementary Russian II****3 Credits**

**Prerequisite:** RU 0110.

This course, a continuation of RU 0110, teaches the essentials of pronunciation, structure, and usage, allowing students to acquire the skills of listening, speaking, reading, and writing. Language cultures are explored through a variety of media. Students attend three classes per week and do mandatory online work determined by the instructor.

**RU 0210 Intermediate Russian I****3 Credits**

**Prerequisite:** RU 0111.

This course, the first in a two-semester sequence, prepares students to continue the study of language on a more advanced level, and includes review of essential points of grammar, vocabulary building, and regular practice in speaking and writing. The language cultures are explored through a wide variety of materials (literary texts, press articles, films, etc.) Students attend three classes per week and do mandatory online work determined by the instructor.

**RU 0211 Intermediate Russian II****3 Credits**

**Prerequisite:** RU 0210.

This course, a continuation of RU 0210, prepares students to continue the study of language on a more advanced level, and includes review of essential points of grammar, vocabulary building, and regular practice in speaking and writing. The language cultures are explored through a wide variety of materials (literary texts, press articles, films, etc.) Students attend three classes per week and do mandatory online work determined by the instructor.

## Russian, Eastern European, and Central Asian Studies (RES)

**RES 0310 Capstone Seminar: Current Topics in Russia, Eastern Europe, and Central Asia****3 Credits**

This interdisciplinary seminar, team-taught by faculty members from different disciplines or available as an independent project, focuses on current and changing developments in Russia, Eastern Europe, or Central Asia and covers culture, politics, business, and economics, enabling students to integrate their different disciplines in a case-study format. The course includes oral and written assignments in addition to a special seminar project, designed by students in close consultation with instructors. Open to juniors and seniors only.

**RES 0395 Internship in Russian and East European Studies****3 Credits**

Candidates work a minimum of eight hours per week during the semester either for the Russian, East European and Central Asian Studies Program director, helping with publicity, coordination, and public events, or for an organization or business in the area doing work in Russia, Eastern Europe, or Central Asia. Under the direction of a faculty member in Russian, East European and Central Asian studies, interns regularly report on their work and write an evaluation of the experience at the end of the summer. The internship is available only to juniors and seniors seeking a minor in Russian, East European, and Central Asian studies.

## Sociology (SO)

**SO 0011 Introduction to Sociology****3 Credits**

This introduction to sociology provides students with a sense of sociology's orientation; its particular way of looking at human behavior in the context of people's interaction with each other. The course emphasizes the kinds of questions sociology asks, the methods it uses to search for answers, and how it applies the answers to problems of people's everyday lives and issues of social policy.

**SO 0112 American Society****3 Credits**

**Attributes:** ASGW American Studies: Gateway, ASSO American Studies: Sociology, UDIV U.S. Diversity

This course analyzes the dominant ideology and values that have shaped American culture – namely the Protestant ethic – and how and why these values are changing. The course also analyzes major institutional trends that have transformed and continue to transform America and the modern world - bureaucratization, industrialization, urbanization, the rise of the business corporation, science, and technology - and the effects of these institutions in producing new personality types, mass society, and rapid social change. The course provides a macro-sociological framework.

**SO 0142 Sociology of the Family****3 Credits**

**Attributes:** ASSO American Studies: Sociology, WSGC Women, Gender, and Sexuality Studies: Gender Component

The family is a basic social institution of all societies. This course, which examines family systems as they exist in other cultures and in times past, focuses on understanding the contemporary American family system. Students consider American patterns of dating, mate selection, sexual behavior, marriage, parenting, and aging, as well as alternative life styles and family instability.

**SO 0144 Sociology of Sexuality****3 Credits**

**Attributes:** ASSO American Studies: Sociology, WSGF Women, Gender, and Sexuality Studies: Gender Focused

This course explores the social construction of human sexual behavior, examining the influence of social institutions on sexuality, social responses to variations in behaviors, and the organization of sexual identities.

**SO 0151 Sociology of Religion****3 Credits**

**Attributes:** ASSO American Studies: Sociology, UDIV U.S. Diversity

This course offers a combined theoretical and empirical treatment of the sociology of religion, the character of religious institutions, the relations of religious institutions with other institutions in society, and the internal social structure of religious institutions. It gives particular attention to the process of secularization in the modern world and the crisis this poses for traditional religion.

**SO 0161 American Class Structure****3 Credits**

**Attributes:** ASGW American Studies: Gateway, ASSO American Studies: Sociology, EDCG Educational Studies Cognate, EDDV Educational Studies Diversity, PJST Peace and Justice Studies, UDIV U.S. Diversity

This course examines the roots and structure of class in the United States and the consequences of this hierarchical arrangement on everyday life. It focuses primarily on social class; however, the dynamics and consequences of social class cannot be fully understood without addressing the complex interconnections between class, race, and gender.

**SO 0162 Race, Gender, and Ethnic Relations****3 Credits**

**Attributes:** ASGW American Studies: Gateway, ASSO American Studies: Sociology, BSCC Black Studies Component Course, BSSS Black Studies: Social and Behavioral Sciences, EDCG Educational Studies Cognate, EDDV Educational Studies Diversity, PJST Peace and Justice Studies, UDIV U.S. Diversity, WSGF Women, Gender, and Sexuality Studies: Gender Component

This course analyses sociological and social psychological dimensions of race relations, ethnic interaction, and the changing role and status of women. It focuses on the American scene but also examines problems of women and minorities in other parts of the world and their importance for world politics. It also considers what sociologists and social psychologists have learned about improving dominant/minority relations.

**SO 0163 Urban/Suburban Sociology: NYC****3 Credits**

**Attributes:** ASSO American Studies: Sociology, BSCC Black Studies Component Course, BSSS Black Studies: Social and Behavioral Sciences

This course explores the nature of the city and growth of metropolitan regions in the contemporary world; the ecological approach and the use of demographic data in the analysis of modern urban communities; social organization of metropolitan regions and the emergence of urban-suburban conflict; big-city politics, community control, and regional government as dimensions of organization and disorganization in city life; and city planning and urban development at local and national levels as efforts to solve the urban crisis.

**SO 0165 Race, Cities, and Poverty****3 Credits**

**Attributes:** ASSO American Studies: Sociology, BSFC Black Studies Focus Course, BSSS Black Studies: Social and Behavioral Sciences, EDCG Educational Studies Cognate, PJST Peace and Justice Studies, UDIV U.S. Diversity

The geography of cities is in constant flux. People move in and out, businesses open and close, city government institutes social policy in response to existing changes in different communities. Many of the changes in cities have been influenced by racial-ethnic and economic dynamics. In this course we will examine the ways race has shaped our perceptions of and responses to community. Why are urban areas "racialized"? Why does talk of the underclass imply black Americans and Latinos? We will focus primarily on black Americans, but will also consider white ethnic groups and other ethnic groups in discussion. In our examinations we will focus on case studies of urbanization and race such as post-Katrina New Orleans, southern migration to Chicago, and Bridgeport.

**SO 0166 Feminism, Gender, and Everyday Life****3 Credits**

**Attributes:** ASGW American Studies: Gateway, ASSO American Studies: Sociology, PJST Peace and Justice Studies, WSGF Women, Gender, and Sexuality Studies: Gender Focused

This course provides an introduction to the study of gender through a feminist lens. The central themes of the course are the changes and continuities of gender roles within the United States, the social processes that influence our gender identities, and the connections between gender, power, and inequality. The course addresses the ways in which the media, popular culture, work, and schools have been pivotal sites for the creation and maintenance of gender performances, and explores sites of resistance in art and activism. The course pays special attention to the ways in which race, class, and sexualities intersect processes of gender relations and social change.

**SO 0169 Women: Work and Sport****3 Credits**

**Attributes:** ASSO American Studies: Sociology, PJST Peace and Justice Studies, UDIV U.S. Diversity, WSGF Women, Gender, and Sexuality Studies: Gender Focused

Sex and gender stratification exists in most areas of everyday life throughout American society. This course concentrates on women in the workplace and in sport. It analyzes women's occupational status and the accompanying roles from the colonial period to the present from a variety of theoretical perspectives. Since sport is a microcosm of society, the course treats the perceptions and experiences of female athletes in 20th-century America as a mirror of the inequality within the larger world.

**SO 0171 Criminology****3 Credits**

**Attributes:** ASSO American Studies: Sociology

This course examines crime rates and crime trends in the U.S. Theories of criminal behavior are critically analyzed. It also explores victimless crime, white collar crime and organized crime. Societal responses to crime and criminals are addressed.

**SO 0175 Sociology of Law****3 Credits**

**Attributes:** ASSO American Studies: Sociology

Based in the relationship of law and society, this course explores the meaning of law, civil disobedience, and other challenges, and law as an agent of social change. It takes as its major theme legal equality versus social inequality and analyzes this theme in terms of discrimination against the poor, women, and various racial groups. Students discuss the role of lawyers, the police, and the courts in American society in the second half of the semester.

<b>SO 0179 Death Penalty in America</b>	<b>3 Credits</b>	<b>SO 0190 Globalization</b>	<b>3 Credits</b>
<b>Attributes:</b> ASSO American Studies: Sociology, PJST Peace and Justice Studies		<b>Attributes:</b> ASSO American Studies: Sociology	
This course is an in-depth analysis of capital punishment. The history of the death penalty and its contemporary status in the U.S. is explored. Public opinion and the decisions of the courts, prosecutors, and juries are addressed. Some of the questions raised include the following: Is the death penalty a deterrent? Is it racially biased? Does it victimize the poor? Are the innocent ever convicted and executed? What sociological factors influence clemency decisions? How is the U.S. position on the death penalty perceived by the international community?		The single most powerful force transforming the world in which we live is the accelerating process of globalization. Information from the Internet, ideas, technology, products, services (and even people, the slowest to move) are all moving within and across national boundaries every hour of every day. As Joseph Stiglitz, former chief economist for the World Bank, puts it, "Globalization is like a giant wave that can either capsize nations or carry them forward on its crest." The goal of this course is to begin to understand the complex causes and effects of globalization. What's driving it and what kind of future is it likely to bring?	
<b>SO 0184 Population: Birth, Death, and Migration</b>	<b>3 Credits</b>	<b>SO 0191 Social Change in Developing Nations</b>	<b>3 Credits</b>
<b>Attributes:</b> HSSS Health Studies: Social Science, WDIV World Diversity Demography, the study of population, is the basis of this course. It examines the causes and consequences of population change. The course addresses global population problems and those faced by the United States. Students analyze real demographic data during weekly demographic techniques sessions.		<b>Attributes:</b> LCEL LACS Minor: Elective, WDIV World Diversity	
<b>SO 0185 Introduction to International Migration</b>	<b>3 Credits</b>	<b>SO 0192 Social Work: An Introduction</b>	<b>3 Credits</b>
<b>Attributes:</b> BSCC Black Studies Component Course, BSSS Black Studies: Social and Behavioral Sciences, EDCG Educational Studies Cognate, HACA Humanitarian Action Minor Context Course, LCEL LACS Minor: Elective, WDIV World Diversity		<b>Attributes:</b> HSSS Health Studies: Social Science	
This course examines the causes, processes, and concerns of international migration, which are explored through the use of case studies that include a wide range of countries from different world regions. These case studies include international migrants, such as refugees, labor migrants, and undocumented migrants. In addition to studying the migrants and the reasons for their international movement, participants have the opportunity to discuss opposing perspectives on the immigration policies of developed countries.		This overview of the social work profession emphasizes the knowledge base, theories, values, and skills that underlie generalist social work practice with individuals, groups, families, and communities. Students consider a range of social problems and social policy concerns as well as the impact of these issues on diverse client populations. The course also conducts a related exploration of the role of the social worker in agency settings and the various fields of practice.	
<b>SO 0188 Contemporary Latin American and Caribbean Society</b>	<b>3 Credits</b>	<b>SO 0193 History of Social Welfare</b>	<b>3 Credits</b>
<b>Attributes:</b> LCEL LACS Minor: Elective		<b>Attributes:</b> ASSO American Studies: Sociology, HSSS Health Studies: Social Science, PJST Peace and Justice Studies	
This course introduces the basic political, economic, and sociological elements of contemporary Latin America and the Caribbean. It begins with an overview of the historical events that have shaped the region. While examining the region as a whole, this course also emphasizes the political, economic, and cultural diversity that characterizes Latin America and the Caribbean. Drawing from several disciplines, while emphasizing sociological approaches, this course explains some of the positive, as well as the more dubious events in contemporary Latin American and Caribbean society. Topics include popular culture, migration, political change, regional integration, urbanization, gender, and inequality, among others. Case studies will be selected for more detailed discussion based on current events.		The course explores the development of the social work profession within the context of the evolution of social welfare in the United States, emphasizing the political, economic, social, and philosophical forces that have forged social welfare policy and helped shape the social work profession. Exploration of the importance of divisions in American society regarding social justice and issues of class, race, ethnicity, and gender provide a framework through which to view current controversies such as welfare reform and the feminization of poverty.	
<b>SO 0189 Sociology of Europe</b>	<b>3 Credits</b>	<b>SO 0194 Sociology of Education</b>	<b>3 Credits</b>
This course introduces the basic political, economic, and sociological elements of contemporary Europe. It begins with an overview of historical events that have shaped the region. While examining the region as a whole, this course also emphasizes the political, socioeconomic and more recent cultural diversity that characterizes the European continent. Topics include political developments and regional integration such as the creation of the European Union, geopolitical dilemmas, popular culture, migration, social change, public policies, inequality and secularization. A comparative macro-sociological framework will be used to discuss differences and similarities with contemporary American society.		<b>Attributes:</b> BSFC Black Studies Focus Course, BSSS Black Studies: Social and Behavioral Sciences, EDCG Educational Studies Cognate, EDDV Educational Studies Diversity, UDIV U.S. Diversity	
		This course introduces students to sociological perspectives on education. We will focus on the structure, practices, content, and outcomes of schooling in contemporary society. Throughout the semester, we address three fundamental questions. What are the primary goals of American education? Why are there systematic patterns of race, class, and gender inequality in education? How can we use the sociological lens to understand, contextualize, and alleviate educational problems in the real world? Drawing upon readings dealing primarily with American education, we discuss how educational experiences influence important life outcomes including lifetime earnings, health status, and interaction with the criminal justice system.	

<b>SO 0221 Statistics: Social and Political Data Analysis</b>	<b>4 Credits</b>
<b>Attributes:</b> EVAP Environmental Studies: Applied Professional Skills	
<b>Prerequisite:</b> SO 0011.	
This course provides a basic introduction to the role of statistical analysis in understanding social and political data, with an emphasis on actual data analysis using the University's computer facilities. It uses an extensive social and political data archive including 2000 Census data, political polls, and national survey data for computer analysis.	
<b>SO 0222 Methods of Research Design</b>	<b>4 Credits</b>
<b>Attributes:</b> ASSO American Studies: Sociology, EVAP Environmental Studies: Applied Professional Skills	
<b>Prerequisite:</b> SO 0011.	
This course examines the nature and function of scientific methods as applied to the field of sociology, emphasizing survey research design and secondary analysis of existing data. Student teams design and conduct research projects as part of the course assignments.	
<b>SO 0228 Classical Social Theory</b>	<b>3 Credits</b>
<b>Prerequisite:</b> SO 0011.	
This course in sociological theory concentrates on the writings of Smith, Marx, Durkheim, and Weber, placing their theories in the context of the social, economic, political, and intellectual turmoil of the late 18th and early 19th centuries. The course includes a focus on the development of sociology as a discipline in the early 20th century and the enduring concerns of the perspective to analyze "modern" industrialized societies.	
<b>SO 0229 Contemporary Social Theory</b>	<b>3 Credits</b>
<b>Prerequisite:</b> SO 0011.	
This course focuses on contemporary American and European sociology and its development after 1945, examining critical social theory, structural functionalism, symbolic interactionism, ethnomethodology, feminism, world systems theory and post modernism. Contemporary application is a central concern in the course.	
<b>SO 0279 Criminal Justice System Seminar</b>	<b>3 Credits</b>
<b>Attributes:</b> ASUP American Studies Upper Level, PJST Peace and Justice Studies	
This seminar explores in detail the workings and problems of the criminal justice system in the United States. In addition to investigating the sources of criminal behavior, the course focuses on the arraignment process, probation, the trial, sentencing, prison reform, and parole.	
<b>SO 0390 Special Topics (Shell)</b>	<b>3 Credits</b>
Special Topics in Sociology provides an opportunity for students and faculty to explore compelling themes that are not covered in the department's regular course rotation and curriculum.	
<b>SO 0397 Field Work Placement</b>	<b>3 Credits</b>
In this one- or two-semester internship program, students are placed in professional and service settings where they work under supervision and acquire experience in the area chosen for placement. In addition, they integrate their experiences with the intellectual foundation acquired in their academic courses. Open to senior majors only.	
<b>SO 0398 Field Work Placement</b>	<b>3 or 6 Credits</b>
In this one- or two-semester internship program, students are placed in professional and service settings where they work under supervision and acquire experience in the area chosen for placement. In addition, they integrate their experiences with the intellectual foundation acquired in their academic courses. Open to senior majors only.	
<b>SO 0399 Independent Study</b>	<b>1-3 Credits</b>
Upon the request and by agreement of an individual professor in the department, students undertake a one-semester independent study on a defined research topic or field.	

## Software Engineering (SW)

<b>SW 0300 Software Engineering Methods</b>	<b>3 Credits</b>
<b>Prerequisite:</b> CS 0232.	
This course explores the requirements gathering, system analysis, and software design methods of software application following the software processes required for the production of high quality software. Techniques for creating documentation and using software development tools will be presented. Students will gain experience in software project management, requirements, analysis, and safety issues in software development; interpersonal skills for management and team membership; and the software engineering discernment of systems architecture. Previously SW 0201.	
<b>SW 0301 Software Design Methods</b>	<b>3 Credits</b>
<b>Prerequisite:</b> SW 0300.	
This course is the continuation of SW 0300 with in-depth projects and further discussions of design and implementation topics. Through the use of case studies and project work that has the student gradually building a large design specification, students will achieve an understanding of how complex applications are designed and built. Previously SW 0202.	
<b>SW 0304 Web Development</b>	<b>3 Credits</b>
<b>Attributes:</b> ENPC Digital Journalism Production Component	
<b>Prerequisite:</b> CS 0131.	
This course introduces the student to developing applications for use on the World Wide Web. Students learn basic n-tier concepts for designing distributed applications and gain hands on experience through the construction of Web-based applications. The course covers concepts that allow communication over the Web. This includes designing and authoring Web pages, markup languages, the client-side document object model, usability, search engine optimization, and client-side dynamic Web pages.	
<b>SW 0305 Mobile Application Development</b>	<b>3 Credits</b>
<b>Prerequisite:</b> CS 0131.	
This project-oriented course examines the fundamental aspects of mobile computing, application architecture, and mobile application design and development. Students will learn application development on the Android platform. Students will complete a hands-on project building a prototype mobile application. Topics include user interface design and building, input and data handling, and network techniques and GPS and motion sensing. Students are expected to work on a project that produces a professional-quality mobile application. Projects will be deployed in real-world applications.	
<b>SW 0312 Agile Software Engineering</b>	<b>3 Credits</b>
<b>Prerequisite:</b> SW 0300.	
In this course, students apply in-depth techniques and experience various roles incorporated into one of the main approaches to software development which is agile methodology. It uses detailed knowledge about each of the major traditional software engineering phases to explore a more iterative approach for development of faster and more adaptable software. Proficiency in programming is expected of the students entering this course.	

**SW 0314 Network Concepts****3 Credits**

This course covers the structure and technologies of computer networks architecture including cabling, wiring hubs, file servers, bridges, routers, and network interface cards. It discusses network software and hardware configurations protocol stacks and connecting a personal computer to a network. The course examines the OSI-model, TCP/IP protocol, and routing protocols. Students will be able to create a subnet of TCP/IP networks.

**SW 0320 Software Testing and Maintenance****3 Credits****Prerequisite:** SW 0300.

This course will cover in-depth methods for software testing, reliability and maintenance of software. Students will learn the principles of software testing and how to apply software testing techniques to the development of quality software and how to deploy software systems, maintain, enhance and reuse software systems.

**SW 0321 Software Project Management****3 Credits****Prerequisite:** SW 0300.

This course explores and practices fundamental project management skills and life cycles required for both the successful management and development of software. Quality management principles of Personal Software Process (PSP) and Team Software Process (TSP) are introduced and practiced. Students will learn how to develop a project plan, scope a project, identify project activities, create work breakdown structures, estimate and schedule resources, construct and analyze project network diagrams, finalize project schedule and cost based on resource activity, recruit team members, organize and manage a project team, monitor and control progress, understand critical path project management, and have knowledge of both agile and traditional project management methods. Previously SW 0204.

**SW 0322 Visual Analytics****3 Credits****Prerequisite:** Junior standing.

In this course, students investigate visual analytics tools and techniques used to synthesize information and derive insight from massive, dynamic, ambiguous, and often conflicting data and to communicate the findings effectively for decision-making. Extensive use of case studies based on real-world events will be used to illustrate course concepts. Students will apply visual analytics techniques toward a focused research problem in a real-world application or a domain of interest.

**SW 0355 Database Management Systems****3 Credits****Prerequisite:** CS 0232.

This course examines data formats, organizations, representations and structures; design and analysis of searching, sorting, and other algorithms; data management systems; relational database model; domains and relational integrity; structured query language; database design - logical and physical; entity-relationship diagrams; normalization; transaction processing; and database administration.

**SW 0382 Special Topics (Shell)****3 Credits**

This course provides an in-depth study of selected topics in software engineering of particular interest to the students and instructor. The course is counted as a major elective/specialization course. The topics and prerequisites will be announced when this course is offered.

**SW 0383 Independent Study****1-3 Credits**

This course is an individualized study under the supervision of the faculty member. The course emphasizes individual creativity. Students work with a faculty mentor in studying and investigating topics of current interest in software engineering. Students may earn from one to three credits for an independent study course. Enrollment by permission only.

**SW 0400 Software Engineering Methods****3 Credits**

This course explores the requirements gathering, system analysis, software design methods and prototyping of software application following the software processes required for the production of high quality software. Techniques for creating documentation and using software development tools will be presented. Students will gain experience in software project management; requirements, analysis, and design; procedural maturity; social, ethical, cultural, and safety issues in software development; interpersonal skills for management and team membership; and the software engineering discernment of systems architecture.

**SW 0401 Software Design Methods****3 Credits**

This course is designed to introduce fundamental concepts of object orientation techniques. Through the use of case studies and project work that has the student gradually building a large design specification, students will achieve an understanding of how complex applications are designed and built.

**SW 0402 Database Management Systems****3 Credits**

This course focuses on the steps required to build and maintain relational database infrastructure for modern n-tiered applications. It covers logical and physical design; implementation of the database; the use of the database to meet the informational needs of a software system; and the installation, operation and maintenance of the software. Specific topics include database design, SQL, interacting with the DBMS, backup and recovery of data security. Students perform a number of hands-on exercises using the Oracle Database Server running on the Microsoft Windows platform. This course serves as one of the bridge courses to the MSSE program.

**SW 0404 Network Concepts****3 Credits**

This course covers the structure and technologies of computer networks architecture including cabling, wiring hubs, file servers, bridges, routers, and network interface cards. It discusses network software and hardware configurations and demonstrates network concepts such as configuring protocol stacks and connecting a personal computer to a network. The course examines the OSI-model, TCP/IP protocol and routing protocols. Student will be able to do subnet of TCP/IP networks.

**SW 0406 Web Client Side Development I****3 Credits****Attributes:** ENPC Digital Journalism Production Component

This course introduces the student to developing browser applications for use on the web. Students learn client side concepts including the display of static information. The course topics include designing and authoring web pages, usability, search engine optimization, markup languages, style sheet, the client side document object model, and making web pages dynamic on the client side.

**SW 0407 Java for Programmers****3 Credits**

This course is a study of object oriented software component design.

This course introduces object oriented programming and its use in problem solving with abstract data types such as lists, linked lists, stacks, queues, graphs, and trees. This course serves as one of the bridge courses to the MSSE program.

**SW 0409 Advanced Programming in Java****3 Credits**

This course covers advanced topic of Java programming. Topic covers multithreading, networking, nested references, design patterns, JDBC, persistence, I/O and advanced GUI such as swing. Data structure concepts such as linked list, tree and basic searching and sorting algorithms will be covered. Lab included.

<b>SW 0410 Enterprise Java</b>	<b>3 Credits</b>	<b>SW 0433 Introduction to Cybersecurity</b>	<b>3 Credits</b>
<b>Prerequisite:</b> SW 0409.		In this course, students will be given an extensive overview of the various components of Cybersecurity including software development, operating systems, databases, and networks. They will learn Cybersecurity concepts, issues, and tools that are critical in solving problems in the computing security domain. The course will use lectures, reading assignments, and interactive lab exercises to re-enforce the concepts that are introduced.	
<b>SW 0412 Agile Software Engineering</b>	<b>3 Credits</b>	<b>SW 0448 Server Management</b>	<b>3 Credits</b>
<b>Prerequisite:</b> SW 0400.		Server Management is a course designed to provide the student with the tools necessary to manage Window Server. The topics include user management, installation and configuration of web server, mail server, FTP server, LDAP and backup and other routine system and network administration.	
In this course, students apply in-depth techniques and experience various roles incorporated into one of the main approaches to software development which is agile methodology. It uses detailed knowledge about each of the major traditional software engineering phases to explore a more iterative approach for development of faster and more adaptable software. Proficiency in programming is expected of the students entering this course.		<b>SW 0455 Artificial Intelligence</b>	<b>3 Credits</b>
<b>SW 0416 Mobile Application Development</b>	<b>3 Credits</b>	This course, which examines computational and theoretical accounts of human intelligence, includes knowledge representation, commonsense reasoning, planning, natural language understanding, machine learning, and deep learning.	
This project-oriented course examines the fundamental aspects of mobile computing, application architecture, and mobile application design and development. Students will learn application development on the Android platform. Students will complete a hands-on project building a prototype mobile application. Topics include user interface design and building, input and data handling, and network techniques and GPS and motion sensing. Students are expected to work on a project that produces a professional-quality mobile application. Projects will be deployed in real-world applications.		<b>SW 0461 Pattern Recognition</b>	<b>3 Credits</b>
<b>SW 0420 Software Testing and Maintenance</b>	<b>3 Credits</b>	This course introduces the student to the techniques used and capabilities of modern pattern recognition systems with an emphasis on those that can learn and improve their performance as they are used. After a short review of some necessary mathematical concepts (Probability, Stochastic Processes and Vector Spaces), the student is introduced to the problem of representing real-world problems to a system. Selected real world applications are used to show examples of some valid representations (e.g. Speech and Handwriting) to provide insight and experience in the application of recognition systems. Several important recognition engines are then described and analyzed for their effectiveness in recognition/synthesis/learning systems. The use of additional knowledge bases dealing with the problem environment is then introduced to increase system performance and overall recognition system structures are discussed.	
<b>SW 0421 Software Project Management</b>	<b>3 Credits</b>	<b>SW 0482 Special Topics (Shell)</b>	<b>3 Credits</b>
This course explores software project activities from conception to completion based on best practices. Topics include software systems engineering, personal/team software process management and control, and project planning and management. Through group and individual activities, students apply project management tools and techniques, and address typical problems that occur during the life cycle of the software project.		This course provides an in-depth study of selected topics in software engineering of particular interest to the students and instructor. The course is counted as a major elective/specialization course. The topics and prerequisites will be announced when this course is offered.	
<b>SW 0422 Visual Analytics</b>	<b>3 Credits</b>	<b>SW 0483 Independent Study</b>	<b>3 Credits</b>
In this course, students investigate visual analytics tools and techniques used to synthesize information and derive insight from massive, dynamic, ambiguous, and often conflicting data and to communicate the findings effectively for decision-making. Extensive use of case studies based on real-world events will be used to illustrate course concepts. Students will apply visual analytics techniques toward a focused research problem in a real-world application or a domain of interest.		This course is an individualized study under the supervision of the faculty member. The course emphasizes individual creativity. Students work with a faculty mentor in studying and investigating topics of current interest in software engineering. Students may earn from one to four for an independent study course.	
<b>SW 0427 Operating Systems and Programming</b>	<b>3 Credits</b>	<b>SW 0499 Algorithms</b>	<b>3 Credits</b>
This course introduces the internal operation of modern operating systems and students learn how to program on non-Window OS platform. The topics cover a brief history of operating system, the major components of modern operating systems, and the object-oriented methodology on UNIX-like platform. Various UNIX tools will be used in the course and participants study examples using object-oriented programs as well as large system integration by object-oriented methodology.		This course explores the development and evaluation of algorithms. This class covers classic algorithms, algorithm analysis, searching and sorting algorithms, dynamic programming, heuristics, and graphic algorithms. Algorithm efficiency and performance is a focus as the student gains experiences through problems and programming projects.	

<b>SW 0505 Advanced Database Concepts</b>	<b>3 Credits</b>	<b>SW 0521 Information Visualization</b>	<b>3 Credits</b>
This course covers topics in database implementation designed to provide software engineers with a wide variety of server-side problem solving techniques. Topics include cursors, query and index optimization, advanced SQL programming, distributed databases, object-oriented databases, clustering, partitioning, and working with XML and other unstructured data. While Microsoft SQL Server is primarily used for demonstration, the topics covered are applicable to any database platform, and the different approaches of the major database vendors are frequently contrasted. Format consists of lecture and lab.		Topics covered include graphics programming, information visualization general principles, visualization techniques for 1-dimensional, 2-dimensional, and N-dimensional information, graph visualization, information visualization lifecycle: representation, presentation, interaction, perception and interpretation, as well as theories behind information visualization, and focus+context techniques. This course also includes the implementation of techniques presented in lecture. Students are encouraged to devise new techniques, implement them, and determine their effectiveness. Students will be required to complete in-depth assignments, read, summarize, and present recent journal papers from the information visualization literature, and prepare term papers with regard to an information visualization research topic. Students will also be required to specify, design, implement, and document a semester-long software project related to information visualization.	
<b>SW 0508 Data Warehouse Systems</b>	<b>3 Credits</b>	<b>SW 0530 Introduction to Information Security</b>	<b>3 Credits</b>
This course examines the tools, techniques and processes used in the design and development of data warehouses. As such we will examine how to successfully gather structure, analyze, and understand the data to be stored in the data warehouse, discuss techniques for modeling the data in the data warehouse, discuss the ETL process and describe techniques for presenting and analyzing the data in the warehouse. We will also discuss capacity planning and performance monitoring. Microsoft Analysis Services and Sybase ASIQ will be examined as approaches for implementing a data warehouse.		This course gives students a fundamental understanding of current Social Engineering methods in the Information Security arena. Deception and human behavior is exploited to gain valuable information, which is very relevant to today's growing security concerns. This course is another key class in the Information Security track in the MSSE program and builds upon the weaknesses in the human factor. Areas of discussion will be methods, current trends, and most of all countermeasures. Instruction includes lectures and discussion assignments which involve analyzing current work places and social gatherings coupled with scenarios of exploitation.	
<b>SW 0512 Web Development II with ASP.NET</b>	<b>3 Credits</b>	<b>SW 0531 Applications and Data Security</b>	<b>3 Credits</b>
<b>Prerequisite:</b> SW 0304 or SW 0406.		This course is structured around enterprise and web applications and the data security associated with these applications. It encompasses the encryption schemes of transmission to execution of code and complete flight of an execution. Common countermeasure and best business practices that help ensure a solid security understanding are the objectives of the course.	
<b>SW 0516 PHP/MySQL</b>	<b>3 Credits</b>	<b>SW 0550 Capstone Professional Project I</b>	<b>3 Credits</b>
<b>Prerequisite:</b> SW 0406.		<b>Prerequisite:</b> SW 0400.	
This course is an introduction to the PHP programming language. Topics include installation and configuration with the Apache http server, variables and data types, language syntax, control structures, functions, strategies and tools for handling input and generating output, error handling, sending email, manipulating dates and times, string manipulation and regular expressions, SQL and MySQL database access. The course also covers advanced topics such as MVC model-based web application development using framework and packages from the PHP Extension and Application Repository (PEAR). At the conclusion of the course, students are able to design and implement scalable data-driven web applications.		In these two semester capstone courses, students form teams, perform a technical study, and design software systems based on either their customer's requirements, develop, test, and deploy software systems. The results of these projects provide a library of case studies, designs, and software development techniques, and project management skills that are of general interest to local information technology professionals. A capstone prospectus, approved by your advisor, must be submitted to and accepted by the director of the program prior to starting the capstone sequence.	
<b>SW 0518 Data Mining and Business Intelligence</b>	<b>3 Credits</b>	<b>SW 0551 Capstone Professional Project II</b>	<b>3 Credits</b>
This course examines business intelligence concepts, methods and processes used to improve data-centric business decision support solutions with a particular focus on data mining techniques. We will first examine the principles and practices of gathering and retrieving large volumes of data for analysis and synthesis. Next we will examine analytical techniques for extracting information from large data sets. In particular, the course examines the following data mining techniques: classification, estimation, prediction, and clustering. During the course we will also discuss knowledge management, how organizations manage and use the knowledge that they acquire, and presentation of data.		In these two semester capstone courses, students form teams, perform a technical study, and design software systems based on either their customer's requirements, develop, test, and deploy software systems. The results of these projects provide a library of case studies, designs, and software development techniques, and project management skills that are of general interest to local information technology professionals. A capstone prospectus, approved by your advisor, must be submitted to and accepted by the director of the program prior to starting the capstone sequence.	

**SW 0560 Software Engineering Thesis I****3 Credits**

**Prerequisites:** SW 0401 and completion of at least 18 credits of MSSE courses.

In these two semester thesis courses, a student will work on individual research project that a student should formulate as a problem, solve it under the guidance of a faculty member and communicate the results. Work involves literature search, writing a proposal, analysis and/or implementation with critical thinking, and writing convincingly. The student must also submit a final paper for possible publication in a refereed journal appropriate to the topic.

**SW 0561 Software Engineering Thesis II****3 Credits**

**Prerequisite:** SW 0560.

In these two semester thesis courses, a student will work on individual research project that a student should formulate as a problem, solve it under the guidance of a faculty member and communicate the results. Work involves literature search, writing a proposal, analysis and/or implementation with critical thinking, and writing convincingly. The student must also submit a final paper for possible publication in a refereed journal appropriate to the topic.

**SW 0596 Network Routing and Switching****3 Credits**

The course presents concepts and develops skills needed in designing, implementing, and troubleshooting local and wide-area networks. Students design and configure LAN, WAN using routers/switches and learn the components of wireless networks, and how to configure and troubleshoot a network and optimize its performance. The course provides also numerous lab opportunities to configure and troubleshoot networks with Cisco routers and switches.

**SW 0599 Information Security Measures and Countermeasures****3 Credits**

This course covers current information security practices and countermeasures put in place to safeguard against security breaches. The course reviews Internet infrastructures such as firewalls, IDS systems, and honey pots. Additional areas include risk analysis, computer-use policies, physical security, Internet/intranet security, Malware, firewall infrastructure, and current information security issues.

## Spanish (SP)

**SP 0110 Elementary Spanish I****3 Credits**

Designed for students with no prior experience with Spanish or whose placement scores are in the range for this course level. This course, the first in a two-semester sequence, teaches the essentials of pronunciation, structure, and usage, allowing students to acquire the skills of listening, speaking, reading, and writing. Language cultures are explored through a variety of media. Students attend three classes per week and do mandatory online work determined by the instructor.

**SP 0111 Elementary Spanish II****3 Credits**

**Prerequisite:** SP 0110.

This course, a continuation of SP 0110, teaches the essentials of pronunciation, structure, and usage, allowing students to acquire the skills of listening, speaking, reading, and writing. Language cultures are explored through a variety of media. Students attend three classes per week and do mandatory online work determined by the instructor.

**SP 0210 Intermediate Spanish I****3 Credits**

**Prerequisite:** SP 0111.

This course, the first in a two-semester sequence, prepares students to continue the study of language on a more advanced level, and includes review of essential points of grammar, vocabulary building, and regular practice in speaking and writing. The language cultures are explored through a wide variety of materials (literary texts, press articles, films, etc.). Students attend three classes per week and do mandatory online work determined by the instructor.

**SP 0211 Intermediate Spanish II****3 Credits**

**Attributes:** LCEL LACS Minor: Elective

**Prerequisite:** SP 0210.

This course, a continuation of SP 0210, prepares students to continue the study of language on a more advanced level, and includes review of essential points of grammar, vocabulary building, and regular practice in speaking and writing. The language cultures are explored through a wide variety of materials (literary texts, press articles, films, etc.). Students attend three classes per week and do mandatory online work determined by the instructor.

**SP 0220 Topics in Language and Culture****3 Credits**

**Prerequisite:** SP 0211.

This course improves proficiency in written and oral expression by focusing on particular topics in Spanish language and culture. Students develop advanced writing and speaking skills while concentrating on grammar, style, and appropriateness. Weekly compositions, based primarily on the genres studied (short story, theater, memoirs, essay) allow students to identify and correct grammatical mistakes. Students present speeches in class and conduct situational dramas such as job interviews, television reporting, courtroom trials, debates in Spanish. Films and various cultural artifacts (comic strips, proverbs, songs) familiarize students with idiomatic Spanish.

**SP 0225 Spanish and English in Contrast****3 Credits**

**Prerequisite:** SP 0220.

This class offers an in-depth review and study of the more problematic aspects of Spanish grammar for English speakers and provides students with the essentials of their own native grammar necessary to comprehend the similarities between English and Spanish.

**SP 0231B Career-Oriented Spanish for Business****3 Credits**

**Attributes:** BUEL Business Elective, LCEL LACS Minor: Elective, SPME Spanish Major or Minor Elective

**Prerequisite:** SP 0220.

This course aims to give post-intermediate students of Spanish a solid foundation of business vocabulary, basic business and cultural concepts, and situational practice that will prepare them to succeed in today's growing Spanish-speaking business world. It will incorporate a wide array of real-life situations and problems that will integrate all four language skills: speaking, reading, writing and listening. One of the main objectives of this course is to turn students into potential professionals by improving their critical thinking and problem-solving skills necessary in today's globalized business world.

<b>SP 0231N Career-Oriented Spanish for Nursing and Health Studies</b>	<b>3 Credits</b>	<b>SP 0285 Introduction to Spanish Linguistics</b>	<b>3 Credits</b>
<b>Attributes:</b> HSTE Health Studies: Traditions, Delivery, and Ethics, LCEL LACS Minor: Elective, SPME Spanish Major or Minor Elective		<b>Prerequisite:</b> SP 0220.	
<b>Prerequisite:</b> SP 0220.		This course is an introduction to the scientific study of language, with a focus on Spanish. It particularly aims at both the descriptive and applied levels. At the descriptive level, it will focus on the understanding of the mechanisms of the language in various areas: how sounds are articulated and work within a system (phonetics and phonology); how small units with meaning are combined to form words (morphology); how words are combined to form sentences (syntax); how meaning is attached to the different units, and how meaning operates at different levels (semantics). At the applied level, it will also explore topics such as linguistic variation, second language acquisition, bilingualism, and the situation of Spanish in the US. Taught in Spanish.	
<b>SP 0245 Analysis and Interpretation of Hispanic Literature</b>	<b>3 Credits</b>	<b>SP 0305 Popular Culture in Latin America</b>	<b>3 Credits</b>
<b>Attributes:</b> LCEL LACS Minor: Elective		<b>Attributes:</b> LCEL LACS Minor: Elective, LCSC LACS Minor: Spanish Culture and Literature	
<b>Prerequisite:</b> SP 0220.		<b>Prerequisites:</b> SP 0220 and one additional 200-level Spanish course.	
The course provides students with the fundamentals of literary analysis in the genres of poetry, narrative, theater, and film. It uses materials from around the Hispanic world to present a broad historical-cultural context for further reading and to sharpen the skills of analysis, argumentation, speaking, and writing. Focused on a literary study whose critical terms derive from the structure of literature itself (plot, scene, shot, verse, etc.), the course includes a survey of the periods of literary history. Students complete critical papers.		This course examines the interaction among mass, elite, traditional, and indigenous art forms, their relationship with the dynamics of national/cultural identity in Latin America in the 19th and 20th centuries, and globalization. Forms of expression include oral poetry and narrative; the folletin (19th-century melodramas by installment) to 20th-century "fotonovelas," "radionovelas," and "telenovelas"; broadsides; comics; musical and political movements such as neo-folklore, new song, Nueva Troba, and Rock Latino; artistic movements such as Mexican muralist; traditional and popular crafts; cooking; popular dance; and film. Open to juniors and seniors only.	
<b>SP 0251 Spanish Civilization and Culture</b>	<b>3 Credits</b>	<b>SP 0306 Cuban Film: A Close Look at the Revolution</b>	<b>3 Credits</b>
<b>Prerequisite:</b> SP 0220.		<b>Attributes:</b> LCEL LACS Minor: Elective, SPME Spanish Major or Minor Elective, WDIV World Diversity	
This course presents the main currents of Spanish civilization by means of lectures and student participation in written and oral reports. Studies of the geography, history, literature, and fine arts of Spain underscore class discussions.		<b>Prerequisite:</b> SP 0220 and one additional 200-level Spanish course.	
<b>SP 0253 Spanish-American Civilization</b>	<b>3 Credits</b>	This class investigates topics in Cuban history, culture, and politics, by focusing on the impact of the Cuban Revolution on society as presented through one of the strongest contemporary Cuban cultural artifacts: Cuban film and film about Cuba. Since 1959 film has played a crucial role in officially narrating, shaping, critiquing and questioning the Revolution. We will analyze how film continues to serve as a space to reflect on the complexities of Cuban society, and how social media and technology is now challenging the limits of Cuban film, and possibly of the Revolution itself.	
<b>Attributes:</b> LCEL LACS Minor: Elective, LCSC LACS Minor: Spanish Culture and Literature, WDIV World Diversity		<b>SP 0309 Bilingualism in the Spanish-Speaking World</b>	<b>3 Credits</b>
<b>Prerequisite:</b> SP 0220.		<b>Attributes:</b> SPME Spanish Major or Minor Elective	
This course presents a general view of Spanish-American civilization from pre-Columbian times to the present. Participants study the culture, social history, and politics of Spanish-America through select literary readings, articles, documentaries, films, newspapers, and Internet research. The course includes a special topic covering the globalization in Latin America and its impact in the 21st century. Students complete exams, oral presentations, written papers, and a final paper.		<b>Prerequisites:</b> SP 0220 and one additional 200-level Spanish course.	
<b>SP 0271 Hispanic Film</b>	<b>3 Credits</b>	The theme of this course is the issue of bilingualism, analyzed from three different angles: sociolinguistic, psycholinguistic, and educational. Bilingualism is a natural and widespread phenomenon, and research on this area has been growing over the last years in various fields, such as Applied Linguistics, Psychology, Sociology, or Education. Approximately half of the world population speaks two or more languages, and current research also shows cognitive advantages for those who speak more than one language. This course will offer students a critical overview of this phenomenon from the three perspectives mentioned above. It will be conducted in Spanish.	
<b>Attributes:</b> LCEL LACS Minor: Elective, LCSC LACS Minor: Spanish Culture and Literature, WDIV World Diversity		<b>SP 0311 Glory, Splendor, and Decay: Spanish Golden Age Literature</b>	<b>3 Credits</b>
<b>Prerequisite:</b> SP 0220.		<b>Prerequisites:</b> SP 0220, SP 0245.	
This course examines and analyzes film by Spanish and Latin-American directors (Buñuel, Saura, Littin, Sanjines, etc.). Students initially study films as an independent genre using specific structural form as the means of analysis (close-up, soundtrack, frame, etc.). Students then begin to formulate interpretations that move between the formal, technical composition of films and the concrete socio-historic and cultural reality to which each film refers. Course activities include screening of films, discussion of articles that deal with literary theory and analysis of film, and writing short papers.		This course studies the most important literary manifestations of the 16th- and 17th-centuries' Golden Age Spanish culture, with emphasis on Cervantes, Tirso de Molina, Lope de Vega, Quevedo, Góngora, and Calderón de la Barca.	

**SP 0331 Love and Deception in 19th-Century Spanish Literature 3 Credits****Prerequisites:** SP 0220, SP 0245.

Students study and analyze representative works of the romantic and realist movements. The course emphasizes theatre and poetry, or the novel, depending on students' needs.

**SP 0341 20th Century Spanish Literature 3 Credits****Prerequisites:** SP 0220, SP 0245.

This course examines works and literary movements from the early part of the 20th century (Generation of '98) to present times. Representative authors include Unamuno, Baroja, Valle-Inclán, García Lorca, J.R. Jiménez, Cela, Laforet, Delibes, and Matute.

**SP 0346 Contemporary Spanish Theatre 3 Credits****Prerequisites:** SP 0220, SP 0245.

This course examines several current themes in contemporary Spanish theatre. One topic is how Spanish theatre has engaged with the memory of historical moments such as the Spanish Civil War (1936-39), the ensuing Franco dictatorship (1939-75), and terrorism under democratic rule, particularly the post-9/11 terrorist bombings in Madrid. While reading a selection of contemporary Spanish plays, we will study the strategies used by playwrights to evoke or avoid the historical memory of these events.

**SP 0353 Spanish-American Narrative 3 Credits****Attributes:** LCEL LACS Minor: Elective, LCSC LACS Minor: Spanish Culture and Literature**Prerequisites:** SP 0220 and one additional 200-level Spanish course.

This critical analysis and discussion of key words of the narrative genre emphasizes the 20th-century development of the novel and short story. Authors include Azuela, Quiroga, Borges, Bombal, Somers, Cortázar, García Márquez, Fuentes, Ferré, and Allende. The course also considers experimental writing, the short story of fantasy, testimonio, and others, and requires critical papers and oral reports. Open to juniors and seniors only.

**SP 0357 The Spanish Novel 3 Credits****Prerequisites:** SP 0220, SP 0245.

This course studies the novel of Spain from its first tentative manifestation with the picaresque through its major development with Cervantes and into the 20th century, emphasizing the works of more important writers. Open to juniors and seniors only.

**SP 0359 Culture, Civilization, and Literature in the Spanish-American Caribbean Region 3 Credits****Attributes:** EDCG Educational Studies Cognate, EDDV Educational Studies Diversity, LCEL LACS Minor: Elective, LCSC LACS Minor: Spanish Culture and Literature, WDIV World Diversity**Prerequisites:** SP 0220 and one additional 200-level Spanish course.

This study and explanation of distinctive elements of Puerto Rico, Cuba, Dominican Republic, and Central American countries focuses on the fusion of indigenous, Black, and Hispanic as manifestation in the Spanish-American Caribbean Region. Students will read, study, and critically analyze relevant documents, and cultural materials from pre-Columbian populations until the contemporary period. Juniors and seniors only.

**SP 0360 Dictatorships and Revolutionary Movements in Contemporary Latin America 3 Credits****Attributes:** LCEL LACS Minor: Elective, LCSC LACS Minor: Spanish Culture and Literature, WDIV World Diversity**Prerequisites:** SP 0220 and one additional 200-level Spanish course.

This course will analyze various revolutionary movements in Latin America as well as the dictatorships that emerged in early 20th Century and ended almost at the turn of the century. We will discuss the new "neosocialist" governments that have emerged in 21st Century Latin America since the end of the Socialist Block (1990s), under the dominant global economy. In this class we will read, analyze, and discuss critical essays and literature (narrative, poetry, and testimonies), and other cultural forms (such as fiction and documentary films, art, music, etc.).

**SP 0363 Literature and Culture of the Hispanic Caribbean Migration and Diaspora 3 Credits****Attributes:** LCEL LACS Minor: Elective, LCSC LACS Minor: Spanish Culture and Literature**Prerequisites:** SP 0220 and one additional 200-level Spanish course.

This course explores the overlapping experiences of migrations and diaspora in the Hispanic Caribbean. The course reviews the history of Caribbean migrations and the experiences of Caribbean migrants in the United States through major literary works of Puerto Rico, Dominican Republic and Cuba. With its complex racial, cultural and linguistics mixture, the Caribbean is where today's globalization began, over 500 years ago. Students will draw on an interdisciplinary approach: historical, sociopolitical, ethnic, multi-linguistic and global contexts. Films and oral presentations are part of the course. This course is taught in Spanish.

**SP 0371 Images of Latin American Indians 3 Credits****Attributes:** LCEL LACS Minor: Elective, LCSC LACS Minor: Spanish Culture and Literature, WDIV World Diversity**Prerequisites:** SP 0220 and one additional 200-level Spanish course.

This course examines the vision of Latin American Indians from the first letters of the "discoverers" and conquistadores (Colón, Cortés, Bernal Díaz del Castillo), and missionaries (Bartolomé de las Casas) through relevant novels, short stories, and films of the 19th and 20th centuries. To understand the post-discovery vision of the Indians, this course also studies the major pre-Columbian civilization of Mesoamerica and the Andean region. Authors include: Matto de Turner, Icaza, Arguedas, Castellanos, and others. Open to juniors and seniors only.

**SP 0377 Internship 3 Credits**

The internship program gives students first-hand experience in the fields of translation, interpretation, cataloging, public relations, advertising, teaching, etc., in the language of their specialization. Department members, who agree to guide the endeavor, supervise student work. When required by a faculty supervisor, evaluation of student interns may be required from the institution where students work. The student's work should demand no less than one full day per week, or its equivalent. Open to juniors and seniors only.

**SP 0378 Internship 3 Credits**

The internship program gives students first-hand experience in the fields of translation, interpretation, cataloging, public relations, advertising, teaching, etc., in the language of their specialization. Department members, who agree to guide the endeavor, supervise student work.

When required by a faculty supervisor, evaluation of student interns may be required from the institution where students work. The student's work should demand no less than one full day per week, or its equivalent. Open to juniors and seniors only.

**SP 0381 Coordinating Seminar I****Attributes:** LCEL LACS Minor: Elective

This is the senior capstone, in which every Senior Spanish Major during the spring semester of their senior year, must complete a research paper for the major. The topic varies according to the professor teaching the capstone that semester. Enrollment by permission only.

**3 Credits****SP 0382 Coordinating Seminar II****3 Credits**

Students undertake readings and studies in a specialized area of Spanish, under the direction of a staff member. Designed to fill the special needs of specific students, this course is offered at the discretion of the department chair. Hours by arrangement. Open to juniors and seniors only.

## **Special Education (SE)**

**SE 0099 Comprehensive Examination in Special Education****0 Credits****Prerequisites:** SE 0410, SE 0411, SE 0413, SE 0417.

The comprehensive examination is required of all candidates earning an MA degree in Special Education. The comprehensive exam is taken after successful completion of at least 18 credits in the program in special education and is designed to assess a candidate's understanding, skills and knowledge base in the four areas associated with the State of Connecticut certification law: a) Psycho-educational theory and development of children with disabilities, b) Diagnosis of children and youth with disabilities, c) Program planning and education of children and youth with disabilities, and d) Curriculum and methods of teaching children and youth with disabilities. If the candidate fails one or more sections of the comprehensive examination, he/she will have one additional opportunity to re-take and pass the section(s) during the scheduled administration of the examination. Grading method: Pass with distinction/Pass/Fail.

**SE 0400 Augmentative Alternative Communications and Assistive****Technologies****3 Credits**

This course provides prospective teachers with an overview of a range of assistive devices that can be implemented in a classroom setting for individuals in grades K-12 with communication deficits, visual and/or hearing impairments, physical challenges, and mild learning impairments. In this course, emphasis is placed on evaluating the needs of individuals whose exceptional needs create barriers to learning and on selecting the appropriate technology that will bypass their disability. Candidates will be provided with resources on current devices and given opportunities to examine and operate actual devices that they may encounter in the classroom setting.

**SE 0403 Foundations in Research and Evaluation of Psychoeducational Issues in Special Education****3 Credits**

This course is designed to introduce candidates to a range of children and adolescents with exceptional learning needs (ELN), to the intent of special education law and the process of identification and evaluation of exceptional learners, and to the foundational research on the complex issues and problems that affect these students. Topics include methods of identifying and working effectively with children and youth with special learning needs in the regular classroom; the roles and responsibility of counselors, psychologists, educators and ancillary personnel as members of a multidisciplinary team in planning educational services for exceptional learners; laws that impact on assessment, placement, parent and student rights, and support services. In this course, candidates are introduced to a range of quantitative and qualitative research designs and the methodological tools to analyze data. Through discussion of issues, candidates consider how research can be a valuable tool that helps teachers systematically reflect on learning and evidence-based practices. Using current scholarly research articles, each candidate investigates, writes, and presents on a psychoeducational issue that impacts a specific category of exceptional learners. This course requires a fieldwork component as part of the evaluation process.

**SE 0405 Exceptional Learners in the Mainstream****3 Credits**

This course familiarizes the mainstream professional with the special learning needs of children and youth with intellectual and developmental disabilities, learning disabilities, emotional disturbances, severe disabilities, multiple disabilities, and/or students who are gifted and talented. Topics include methods of identifying and working effectively with children and youth with special learning needs in the regular classroom; the roles and responsibility of counselors, psychologists, educators and ancillary personnel as members of a multidisciplinary team in planning educational services for exceptional learners; laws that impact on assessment, placement, parent and student rights, and support services. This course may require a fieldwork component as part of the evaluation process. Note: This course is not for those pursuing an initial certificate or cross-endorsement in special education; it is for general educators and students in affiliated fields of study.

**SE 0410 Autism Spectrum Disorders: Theories and Interventions****3 Credits**

This core course highlights current research on theories and etiology of Autism Spectrum Disorders (ASD). Candidates examine characteristics and behaviors associated with ASD. Specific diagnostic assessment and screening tools are reviewed to examine how these tools are utilized to identify infants and children with ASD. The course also focuses on providing the candidates with understanding the role of families. The course helps create a framework for implementing effective pedagogical interventions, profiling the strengths and challenges of various interventions. Previously SE 0500.

**SE 0411 Introduction to Individuals with Intellectual Disabilities****3 Credits**

Candidates develop an understanding and working knowledge of intellectual and developmental disabilities in this core course, which emphasizes the definitional, medical, psychosocial, and educational issues that affect the lives of people who have been diagnosed as having intellectual and/or developmental disabilities. This course requires a fieldwork component as part of the evaluation process.

**SE 0413 Theories of and Introduction to Learning Disabilities 3 Credits**

This core course introduces candidates to the various types of learning disabilities, exploring various theoretical constructs pertaining to numerous facets of the disorder (e.g., cognition, executive functioning, attention deficits, etc.). Candidates examine educational and social emotional sequelae and implications of specific receptive, memory, and expressive processing impairments on learning using actual case evaluations. The important role of assessment in the identification process, in response to intervention (RTI), and in creating instructional educational goals is emphasized. This course requires a fieldwork component as part of the evaluation process.

**SE 0417 Introduction to Children and Youth with Social and Emotional Disturbances 3 Credits**

This core course introduces candidates to emotional and behavioral disorders (EBD) in students K-12. Symptoms, etiology, diagnostic criteria for special services, and assessment devices are examined that prepare candidates to design instruction around behavioral goals for students whose behavior interferes with learning. Emphasis is placed on typical versus atypical social and emotional development, the identification process, analysis of behavior and functional behavior assessment (FBA), evidence-based cognitive behavioral interventions and the development of positive behavior support plans. This course requires a fieldwork component as part of the evaluation process.

**SE 0419 Special Learners in the Bilingual/ESL Classroom 3 Credits**

Designed to familiarize special educators, bilingual educators and ESL teachers with the developmental learning needs of children and adolescents who are exceptional, this course examines the special learning needs of linguistically and culturally diverse children, exploring methods of identifying and working effectively with exceptional children and adolescents in bilingual or ESL classrooms. Crosslisted with SL 0419.

**SE 0429 Principles of Structured Literacy I: Fundamentals of Reading and Language Development 3 Credits**

This course covers the foundational concepts of oral and written language including the language processing requirements of proficient reading and writing: phonological, orthographic, morphologic, semantic, syntactic, and discourse processing. Candidates will learn other aspects of cognition and behavior that affect reading and writing such as attention, executive function, memory, processing speed, and grapho-motor control. Candidates will learn the typical developmental progression of oral language (semantic, syntactic, pragmatic), phonological skills, printed word recognition, spelling, and reading fluency. Candidates will also learn how the relationships among major components of literacy development change with reading development (i.e. changes in oral language, including phonological awareness; phonics and word recognition, spelling; and reading and writing fluency). The research and instructional strategies for phonological awareness, systematic phonics, and reading fluency will be taught. Crosslisted with RLD 0429.

**SE 0432 Management Techniques in Special Education 3 Credits**

Designed to offer training in techniques for improving the academic and social behavior of students with behavior problems, this course teaches candidates how to effect positive behavioral change and includes such topics as behavioral observation and analysis, task analysis, intervention strategies, and behavior change measurement and recording. Candidates complete a functional behavior assessment using data from a fieldwork component for this course.

**SE 0486 Developmental Literacy I: Fundamentals of Reading and Language Development 3 Credits**

This course is the first in a set of two courses that address the foundational concepts, theories, empirical research, and developmental milestones associated with oral and written language. This course focuses on the development of essential decoding strand reading skills (phonological awareness, alphabetic principle, fluency), as well as aspects of cognition and behavior that affect reading and writing. Candidates learn how to administer, score, and interpret universal screening and informal diagnostic measures in the areas of phonological awareness, alphabetic principle, and fluency for the purposes of determining the most appropriate starting point for instruction and planning differentiated instructional groups. Candidates also learn how to select and deliver varied research-based instructional strategies to develop students' foundational reading skills in the areas of phonological awareness, alphabetic principle, and fluency. Crosslisted with RLD 0486.

**SE 0487 Developmental Literacy II: Essentials of Vocabulary and Text Comprehension 3 Credits**

This course is the second in a set of two courses that address the foundational concepts, theories, empirical research, and developmental milestones associated with oral and written language. This course focuses on the development of essential comprehension strand reading skills (fluency, vocabulary, comprehension), as well as aspects of cognition and behavior that affect reading and writing. Candidates learn how to administer, score, and interpret universal screening and informal diagnostic measures in the areas of vocabulary, comprehension, and fluency for the purposes of determining the most appropriate starting point for instruction and planning differentiated instructional groups. Candidates also learn how to select and deliver varied research-based instructional strategies to develop students' reading skills in the areas of vocabulary and comprehension. Crosslisted with RLD 0487.

**SE 0529 Principles of Structured Literacy II: Essentials of Decoding and Encoding 3 Credits**

This course covers vocabulary and comprehension research and explicit instructional strategies. The candidate will learn about the role of vocabulary development and vocabulary knowledge in comprehension. This course includes research-based comprehension teaching strategies that are appropriate for before, during, and after reading that promote reflective reading (e.g., prediction, prior knowledge, monitoring, think-aloud, text structure, visual representation, mental imagery, summarization, questions-questioning, etc.). Candidates will learn the factors that contribute to deep comprehension including background knowledge, vocabulary, verbal reasoning ability, knowledge of literary structures and conventions, and use of skills and strategies for close reading of text. Semantics, the ability to identify examples of meaningful word relationships or semantic organization and syntax, the ability to distinguish among phrases, dependent clauses, and independent clauses in sentence structure, are presented. This course includes an introduction to discourse organization, explaining the difference between narrative and expository text and knowledge of cohesive devices in text and inferential gaps in the surface of text. Crosslisted with RLD 0529.

**SE 0534 Skill Development for Individualized Educational Plans 3 Credits**

This course is designed to develop the skills necessary for creating comprehensive diagnostic educational plans for students with identified learning needs and utilizes comprehensive cognitive processing and academic achievement evaluations as a foundation. A non-categorical approach is utilized and topics of exploration include: the identification of patterns of strengths and weaknesses and resultant development of goals and objectives; determination of appropriate methodologies, programs, and strategies; selection and organizational sequence of materials; and consideration of various educational environments in which services may be provided.

**SE 0537 Curriculum and Methods for Students with Mild to Moderate Disabilities 3 Credits**

This course presents curriculum and methods for use with students having mild to moderate disabilities in learning.

**SE 0550 Collaboration and Consultation for the Special Educator 3 Credits**

This course presents an overview of models that support the role of the consulting teacher as a facilitator and collaborator with school-based personnel and families of students with disabilities in the process of decision making and service delivery to children, youth, and young adults with special learning needs. Major topics include: the application of consultation models and family systems theories to systems change; psychosocial stages of family structure and systemic interaction; stages of group process, working with paraprofessionals, and co-teaching. This class may require a fieldwork component.

**SE 0561 Diagnostic Procedures in Special Education of Youth with Disabilities 3 Credits**

This course includes selection, administration, scoring, and interpretation of individually administered cognitive processing and academic achievement diagnostic instruments that help drive instructional decision-making. Candidates are also provided with detailed information/data as it pertains to administering varied diagnostic assessments used for disability identification, interpreting results for purposes of determining eligibility for various disabilities (e.g., Dyslexia, Dyscalculia, Dysgraphia, etc.) and, understanding varied diagnostic assessments and procedures by using various models of interpretation and theoretical foundations. Also, the course provides a foundation for understanding the strengths and weaknesses of students undergoing diagnostic evaluations.

**SE 0565 Evidence-Based Strategies in the Inclusive Classroom 3 Credits**

**Prerequisite:** ED 0350 or SE 0405.

This course builds on the foundational knowledge about exceptional learners examined during SE 0405, and shifts the focus to strategies that can be used to differentiate instruction for exceptional learners in the inclusive classroom. General education candidates will learn about their role in the pre-referral/referral process and how to develop IEP goals and objectives. Next, candidates will be introduced to a range of social and academic assessment devices that are used to drive instruction. Using videos and case studies, candidates will analyze patterns of behavior in order to design evidenced-based classroom behavior management plans. By the end of the course, candidates will be able to make modifications to their curriculum, and accommodations to their instructional delivery, to meet the needs of exceptional learners.

**SE 0568 Special Topics (Shell) 3 Credits**

This course explores advanced topics in the field of special education. Topics may vary each semester and are determined by the special education faculty as a reflection of pertinent themes of interest in the field.

**SE 0591 Practica in Special Education**

**3 Credits**

This course consists of an experiential opportunity for candidates pursuing a cross-endorsement in special education. Each practicum is individually designed to meet the candidate's needs and fulfill the certification requirement of working with at least two different disabilities. Practicum requirements include seminar attendance in one semester of student teaching in conjunction with the on-site experience and supervision. Candidates fulfilling the cross-endorsement in comprehensive special education confirm placements in conjunction with the candidate's University advisor and the Director of Student Teaching Placement. Enrollment requires successful completion of required courses, passing of the PRAXIS II in Special Education and the Foundations of Reading Test, and permission of the candidate's University advisor. Candidates must notify their University advisor and the Director of Field Experiences of their intent to start these courses in the semester prior to their anticipated practicum placement. For cross-endorsement candidates only. Pass/Fail.

**SE 0592 Practica in Special Education**

**3 Credits**

This course consists of an experiential opportunity for candidates pursuing a cross-endorsement in special education. Each practicum is individually designed to meet the candidate's needs and fulfill the certification requirement of working with at least two different disabilities. Practicum requirements include seminar attendance in one semester of student teaching in conjunction with the on-site experience and supervision. Candidates fulfilling the cross-endorsement in comprehensive special education confirm placements in conjunction with the candidate's University advisor and the Director of Student Teaching Placement. Enrollment requires successful completion of required courses, passing of the PRAXIS II in Special Education and the Foundations of Reading Test, and permission of the candidate's University advisor. Candidates must notify their University advisor and the Director of Field Experiences of their intent to start these courses in the semester prior to their anticipated practicum placement. For cross-endorsement candidates only. Pass/Fail.

**SE 0593 Student Teaching and Practica Seminar in Special Education**

**6 Credits**

This six-credit course consists of a semester-long, fulltime placement in a public school or an approved setting working with a trained cooperating teacher who supervises the candidate pursuing an initial certificate in special education as he or she works with students identified with at least two different disabilities. Student teaching requirements include attendance in Student Teaching and Practica Seminar (SE 0594) in conjunction with the on-site experience and supervision. Candidates fulfilling the initial certificate in special education coordinate their site placements with their academic advisor, University supervisor, and/or the director of Student Teaching Placement. Enrollment requires successful completion of required courses and permission of the candidate's University advisor. Candidates must notify their University advisor, and the Director of Field Experiences of their intent to start this course in the semester prior to their anticipated student teaching experience. For initial certification candidates only. Pass/Fail.

**SE 0594 Student Teaching and Practica Seminar in Special Education** 3 Credits

**Corequisite:** SE 0591 or SE 0592 or SE 0593.

Participants take this weekly seminar concurrently with student teaching/practica. Although much of the seminar's subject matter flows from the ongoing student teaching/practica experience, it deliberately addresses areas such as understanding IEPs, goal writing, lesson planning, due process, mindfulness, communication with parents/caregivers, sensitivity to multicultural issues, and roles and responsibilities as a case manager. It also provides opportunities to collaborate with regular education certification candidates in ways authentic to the work of both categories of teachers and special education. The course stresses continued reflective practice and professional development, including development of a professional portfolio, continued study and research, and establishing a supportive collegial network. The job application process, including resume writing, interviewing skills, and developing a teaching philosophy, are also addressed. Candidates also receive information on the certification process.

**SE 0595 Independent Study** 3-6 Credits

The course provides opportunities for advanced candidates to pursue their interests in diverse aspects of special education under the guidance of a faculty member. Enrollment by permission of the instructor and the Director of Special Education only.

**SE 0599 Seminar in Special Education** 3 Credits

**Prerequisite:** Matriculation in the Special Education program and permission from the candidate's University Advisor and the Director of Special Education.

This advanced synthesizing seminar directs the candidate toward an in-depth study of special topics in the field, using a research-oriented approach.

## Studio Art (SA)

**SA 0011 Introduction to Sculpture** 3 Credits

**Attributes:** GDSA Graphic Design: Studio Arts, VPC2 Visual and Performing Arts Core: Applied Course

**Fee:** \$60 Materials Fee

This beginning sculpture course is an introduction to working three-dimensionally. Promoting an understanding of the creative process, students will construct objects in both abstract and realistic styles. The course emphasizes concepts, contemporary art and theory through a wide variety of materials and aesthetic categories such as collage, sculptural construction, and installation.

**SA 0012 Introduction to Drawing** 3 Credits

**Attributes:** GDSA Graphic Design: Studio Arts, VPC2 Visual and Performing Arts Core: Applied Course

**Fee:** \$60 Materials Fee

This course focuses on the act of seeing and its intimate connection with mark-making. Experiences develop observational, expressive, and conceptual skills. Students explore the formal elements of drawing, such as line, value, composition, and form, and how they can be used to express an awareness of one's self and the world around one. The course explores a variety of materials and processes through in- and out-of-class projects. Students participate in critiques of these projects and, through writing and speaking, develop a language of aesthetic awareness and a sense of artistic quality.

**SA 0013 Introduction to Figure Drawing** 3 Credits

**Attributes:** GDSA Graphic Design: Studio Arts, VPC2 Visual and Performing Arts Core: Applied Course

**Fee:** \$60 Materials Fee

This introduction to drawing from the human figure uses a wide variety of media and techniques. The course emphasizes understanding, interpretation, and expressive use of the figure in contemporary studio practice. Students discover proportion and form throughline, value, perspective, anatomical studies, and analysis of structure. Students participate in critiques of their projects and, through writing and speaking, develop a language of aesthetic awareness and a sense of artistic quality.

**SA 0014 Introduction to Printmaking** 3 Credits

**Attributes:** GDSA Graphic Design: Studio Arts, VPC2 Visual and Performing Arts Core: Applied Course

**Fee:** \$60 Materials Fee

This course is an introduction to traditional, contemporary and experimental approaches to making prints. By exploring etching, monoprinting, digital imaging and photographic techniques students learn skills fundamental to the printmaking process. In this course we will explore visual language in a broader studio arena, incorporating color theory and an exploration of ideas based on individual experiences and a response to and reflection on current issues and concerns.

**SA 0015 Introduction to Painting** 3 Credits

**Attributes:** GDSA Graphic Design: Studio Arts, VPC2 Visual and Performing Arts Core: Applied Course

**Fee:** \$60 Materials Fee

This course introduces the methods, techniques, and language of oil painting. Students explore principles of color, construction, paint handling, delineation of form and space, light and shadow, surface, texture, and composition. Students paint primarily from observation and employ representational and abstract modes. Materials and historical concerns are integral parts of directed and individual investigations.

**SA 0016 Introduction to 2-D Design** 3 Credits

**Attributes:** GDSA Graphic Design: Studio Arts, VPC2 Visual and Performing Arts Core: Applied Course

**Fee:** \$60 Materials Fee

This course is an introduction to the aesthetic dimension of human existence through the appreciation and practice of pictorial design, a fundamental aspect of our larger visual culture. Studio exercises will familiarize students with concepts such as line, rhythm, shape, balance, texture, and pattern. A hands-on studio environment with computer-based assignments will involve students in practical and creative problem-solving. Adobe Illustrator and Photoshop will be the software programs used on all assignments. Across the semester students become more familiar and conversant in the elements and principles of design as well as the two software programs.

<b>SA 0100 Experiments in Drawing</b> <span style="float: right;">3 Credits</span>	<b>SA 0133 Alternative Processes Photography</b> <span style="float: right;">3 Credits</span>
<b>Attributes:</b> GDSA Graphic Design: Studio Arts, VPC2 Visual and Performing Arts Core: Applied Course	<b>Attributes:</b> GDSA Graphic Design: Studio Arts, VPC2 Visual and Performing Arts Core: Applied Course
<b>Fee:</b> \$60 Materials Fee	<b>Fee:</b> \$110 Materials Fee
In this introductory course students will gain an expanded view of how seeing, drawing, and thinking contribute to organizing and expressing one's visual thoughts and ideas. Through hands-on studio projects, visual thinking will be emphasized as a creative practice that augments intellectual thought and teaches problem-solving skills. Through an interdisciplinary approach, students will discover new ways of organizing visual space and reflect on the myriad of approaches to working with their hands and new materials both found and new. Projects will include a wide range of mark making, collage, collotypes and other layering techniques. This course is designed to be open and accessible to all students.	This course covers alternative techniques in photography, including Cyanotypes, Kallitypes, collage, and instant photography. Additionally, students will have readings pertaining to the history of the medium, and will be introduced to contemporary concepts and use of the photographic image. A digital camera, while not required, will be useful. There are a small number of manual and digital loaner cameras available through the Studio Art Program, but loans are available on a first come basis. This course is designed to be open and accessible to all students.
<b>SA 0101 Introduction to Digital Tools in Art Making</b> <span style="float: right;">3 Credits</span>	<b>SA 0134 Digital Photography</b> <span style="float: right;">3 Credits</span>
<b>Attributes:</b> GDSA Graphic Design: Studio Arts, VPC2 Visual and Performing Arts Core: Applied Course	<b>Attributes:</b> GDSA Graphic Design: Studio Arts, VPC2 Visual and Performing Arts Core: Applied Course
<b>Fee:</b> \$60 Materials Fee	<b>Fee:</b> \$110 Materials Fee
In this introductory studio course, students will explore digital graphics software and how it may be used in conjunction with traditional art media (such as painting and drawing in pencil, ink, charcoal, pastels, and gouache) to develop a unique visual voice. Through projects that build on one another's idea-based and technical components, students will develop an understanding of vocabulary fundamental to visual language and technology's relationship to art now and throughout history. Projects will emphasize that digital technology is not an end in itself, but a means to realizing ideas.	This course covers basic techniques of digital photography, including print production, the development of concepts and theory in photography, the relationship of photography to other visual media, and the study of historical and contemporary precedents. In addition, students will explore the manipulation of photographic images in both black and white and color through the use of Adobe Photoshop. Students must provide their own digital camera. For this course, cameras must have a manual override option. There are nine possible loaner cameras available through the Studio Art Program, but loans are available on a first come basis. This course is designed to be open and accessible to all students.
<b>SA 0105 Color Workshop</b> <span style="float: right;">3 Credits</span>	<b>SA 0136 Artist Book Construction</b> <span style="float: right;">3 Credits</span>
<b>Attributes:</b> GDSA Graphic Design: Studio Arts, VPC2 Visual and Performing Arts Core: Applied Course	<b>Attributes:</b> GDSA Graphic Design: Studio Arts, VPC2 Visual and Performing Arts Core: Applied Course
<b>Fee:</b> \$60 Materials Fee	<b>Fee:</b> \$60 Materials Fee
This course investigates fundamental color theory through studio projects using contemporary and historical references. Students focus on the development and exploration of ideas using a variety of color media and study the practical mixing and application of pigments. The course stresses perception, visual awareness, sensitivity, attitude, and judgment, and is typically offered fall semester. This course is designed to be open and accessible to all students.	In this course, students will engage in book making, book altering, and book deconstruction as a creative endeavor, examining how visual language and written language differ and interact, and will consider the book as a metaphor for any technology that preserves and transmits information. The course will examine our changing relationship with books in the 21st Century by introducing you to the methods and thought processes of working artists as well as social, natural and/or political issues common to practicing contemporary artists. This course is designed to be open and accessible to all students.
<b>SA 0132 Sculpture: Construction and Subtraction</b> <span style="float: right;">3 Credits</span>	<b>SA 0137 Motion and Time-Based Art</b> <span style="float: right;">3 Credits</span>
<b>Attributes:</b> GDSA Graphic Design: Studio Arts, VPC2 Visual and Performing Arts Core: Applied Course	<b>Attributes:</b> GDSA Graphic Design: Studio Arts, VPC2 Visual and Performing Arts Core: Applied Course
<b>Fee:</b> \$60 Materials Fee	<b>Fee:</b> \$60 Materials Fee
An introduction to three-dimensional form and the area that it inhabits, this broad-spectrum course offers an in-depth focus on developing studio skills in sculpture. Hands on collaborative and individual projects introduce students to the themes of space and the environment through an exploration of abstraction and representation. A consideration of the evocative nature of materials is central to this course, as visual organization in the world around us is investigated. This course is designed to be open and accessible to all students.	This course uses a wide variety of media to develop and present performance and installation art, emphasizing interconnections with video, computer, telecommunications, photography, film, live performance, music, and sound. It is typically offered every other spring semester. This course is designed to be open and accessible to all students.

<b>SA 0138 From Drawing to Painting</b>	<b>3 Credits</b>	<b>SA 0233 Advanced Photography</b>	<b>3 Credits</b>
<b>Attributes:</b> GDSA Graphic Design: Studio Arts, VPC2 Visual and Performing Arts Core: Applied Course		<b>Attributes:</b> GDSA Graphic Design: Studio Arts, VPC2 Visual and Performing Arts Core: Applied Course	
<b>Fee:</b> \$60 Materials Fee		<b>Fee:</b> \$60 Materials Fee	
This course specializes in teaching students to work with drawing as a way to develop subject matter and transition into painting. The first part of the semester is focused on collecting and drawing from visual references such as nature, the figure, interiors and still life. Working with sketches, students learn to develop a visual vocabulary to articulate ideas that are meaningful and personal to them. This practice is used as a starting point to develop a language of expression and transition into painting. This course is designed to be open and accessible to all students.		This course builds upon the fundamentals of photography learned in previous photography courses, and depending on the semester focuses on either digital or darkroom techniques. If the focus is digital, a digital camera is required for this course.	
<b>SA 0139 Watercolor</b>	<b>3 Credits</b>	<b>SA 0235 Advanced Drawing</b>	<b>3 Credits</b>
<b>Attributes:</b> GDSA Graphic Design: Studio Arts, VPC2 Visual and Performing Arts Core: Applied Course		<b>Attributes:</b> GDSA Graphic Design: Studio Arts, VPC2 Visual and Performing Arts Core: Applied Course	
<b>Fee:</b> \$60 Materials Fee		<b>Fee:</b> \$60 Materials Fee	
This course is an introduction to the methods, techniques and language of watercolor. In exploring the fundamentals of watercolor this course helps students develop their abilities to see and explore washes of color in relation to pictorial space and form. Value, composition, color, transparency, and wet into wet processes are explored. This course is designed to be open and accessible to all students.		This course builds upon the experience of SA 0012 and stresses advanced development of skills. It focuses on the generation of ideas as a central component in the process of drawing and emphasizes individual direction and inventive drawing through studio projects developed in consultation with the instructor. This course includes individual and group criticism.	
<b>SA 0199 Special Topics (Shell)</b>	<b>3 Credits</b>	<b>SA 0299 Advanced Projects Seminar</b>	<b>3 Credits</b>
<b>Attributes:</b> VPC2 Visual and Performing Arts Core: Applied Course		<b>Attributes:</b> GDSA Graphic Design: Studio Arts, VPC2 Visual and Performing Arts Core: Applied Course	
Students will have the opportunity to work in a specific medium or technique, or on a particular subject, not available in our regular course offerings.		<b>Fee:</b> \$60 Materials Fee	
<b>Prerequisite:</b> SA 0015.		<b>Prerequisites:</b> Three courses in Studio Art.	
This course builds on the experience of Introduction to Painting and stresses fluency in paint and the advanced development of technical and expressive skills. It focuses on the generation of ideas as a central component in the process of painting. Individual direction is developed in consultation with the instructor. This course includes individual and group criticism.		Required for students majoring and an option for students minoring in Studio Art, this course helps students develop a unique body of work representative of their explorations, discoveries and development. Emphasis is on preparing a portfolio reflective of their individual practice. Students read and discuss contemporary and art historical issues. Visiting artists and critics are a feature of the class. Open to majors and minors only.	
<b>SA 0230 Advanced Painting</b>	<b>3 Credits</b>	<b>SA 0301 Exhibition Seminar</b>	<b>3 Credits</b>
<b>Attributes:</b> GDSA Graphic Design: Studio Arts, VPC2 Visual and Performing Arts Core: Applied Course		<b>Attributes:</b> VPC2 Visual and Performing Arts Core: Applied Course	
<b>Fee:</b> \$60 Materials Fee		<b>Fee:</b> \$60 Materials Fee	
<b>Prerequisite:</b> SA 0015.		Students in this course build on Advanced Projects experiences and continue to develop a unique body of work representative of their explorations, discoveries, research and deep reflection. Students regularly read and discuss contemporary, art theory and art historical issues. Emphasis is placed on preparing a portfolio and Senior exhibition. Visiting Artists and critiques are a feature of the class. Open to senior Studio Art majors only.	
<b>SA 0231 Advanced Printmaking</b>	<b>3 Credits</b>	<b>SA 0302 Independent Study</b>	<b>1-3 Credits</b>
<b>Attributes:</b> GDSA Graphic Design: Studio Arts, VPC2 Visual and Performing Arts Core: Applied Course		<b>Attributes:</b> VPC2 Visual and Performing Arts Core: Applied Course	
<b>Fee:</b> \$60 Materials Fee		By arrangement with studio faculty, juniors and seniors may work independently on specific studio projects. Progress is reviewed through individual critiques. Students regularly read and discuss contemporary and art historical issues. Students must finalize independent studies with the studio program director.	
<b>Prerequisite:</b> SA 0014 or SA 0136.		<b>SA 0304 Studio Internship</b>	<b>1-3 Credits</b>
This course focuses on the development of technical and conceptual skills as a central component in the process of printmaking, with an emphasis on developing individual direction through studio work, drawing, writing, and research. Students explore intaglio, silkscreen, and painterly methods of mono-printing.		<b>Attributes:</b> VPC2 Visual and Performing Arts Core: Applied Course	
<b>SA 0232 Advanced Sculpture</b>	<b>3 Credits</b>	Internships are for students who have completed at least three studio courses and whose academic work has prepared them for professional work related to internships as studio assistants to professional artists or for work in museums, galleries, or art-related non-profit organizations in the New York City and local areas. Internships require faculty sponsorship and departmental approval, and are developed by each student in consultation with the supervising professor.	
<b>Attributes:</b> GDSA Graphic Design: Studio Arts, VPC2 Visual and Performing Arts Core: Applied Course			
<b>Fee:</b> \$60 Materials Fee			
<b>Prerequisite:</b> SA 0011 or SA 0132.			
This course builds on the experience of Sculpture I and stresses the advanced development of technical and expressive skills. It focuses on the generation of ideas as a central component in sculpture. Individual direction is developed in consultation with the instructor. This course includes individual and group criticism.			

# Summer Pre-College Programs (SHS)

**SHS 0011 Forensic Psychology**
**0 Credits**
**Fee:** \$2100

This course examines the intersection of psychology and the law. Topics include: lie detection, eyewitness testimony, criminal profiling, jury selection, the insanity defense, offender treatment, juvenile justice, and the death penalty. Case studies, trials, and psychological research will be studied to better understand the psychological aspects of crime.

**SHS 0012 Sports Journalism**
**0 Credits**
**Fee:** \$2100

The importance of independent, sound journalism has never been more important. In this week-long course focused on digital journalism, students will learn how to ethically report and write stories, which they will showcase on a fully-functioning news website that they will design and create.

**SHS 0013 Nursing: The Possibilities Are Endless!**
**0 Credits**
**Fee:** \$2100

Spend a week in the world of nursing, learning about the many opportunities available in the nursing profession. Specific opportunities offered include the basics of first aid and CPR and realistic experiences in the Egan School of Nursing and Health Studies state of the art simulation lab. Students will come away with an understanding of the many possibilities a career in nursing holds with a targeted focus on their personal interests for their future in health care.

**SHS 0014 Robotics Lab**
**0 Credits**
**Fee:** \$2100

Autonomous self-navigating robots help accomplish many tasks in places that are difficult to reach by humans. Such robots should be able to recognize obstacles and alter their paths to complete the task. Students will build a robot using Arduino, an open-source platform based on a microcontroller that can be programmed from a computer. The robot will be powered by batteries mounted on a small chassis with wheels driven by motors and other electronic parts, much like a toy car. They will learn to program the Arduino to accept inputs from ultrasonic sensors in order to stop the motors on finding an obstacle.

**SHS 0015 Shakespeare, Page to Stage: Comedies**
**0 Credits**
**Fee:** \$2100

In this course, students will experience college firsthand while they read, speak, curate, and even stage selections from William Shakespeare's plays. Together, students will use digital tools, workshop writing, collaborate on projects, and develop creative capacities as they learn to appreciate literature. No theatre experience is necessary.

**SHS 0016 Shakespeare, Page to Stage: Tragedies**
**0 Credits**
**Fee:** \$2100

In this course, students will experience college firsthand while they read, speak, curate, and even stage selections from William Shakespeare's plays. Together, students will use digital tools, workshop writing, collaborate on projects, and develop creative capacities as they learn to appreciate literature. No theatre experience is necessary.

**SHS 0017 Exploring Economics Through Excel**
**0 Credits**
**Fee:** \$2100

This one-week course will focus on presenting the foundational skills necessary to be a proficient operator of Microsoft Excel. Our discussions and examples will be built around current and timely issues related to economics. The class will explore topics in economics that include unemployment, income distributions, and issues related to sports economics. The goal of this course is to use these topics in economics to highlight and present the Microsoft Excel skills necessary for success at the collegiate/professional level.

**SHS 0018 Entrepreneurship and Startup Essentials**
**0 Credits**
**Fee:** \$2100

There is a growing segment of the high school student population that is developing ideas for products and services with the intention of undertaking startup businesses. This workshop is designed to convey the essentials of building a business plan in a simple and visual format. Using student ideas as examples, exercises and workshop scenarios provide an intuitive approach for the development of business implementation strategies.

**SHS 0019 Biomedical Institute**
**0 Credits**
**Fee:** \$2100

This course will focus on human biology, disease, and medicine. We will explore a range of topics including human genetics and physiology, biochemical pathways, nutrition and metabolism, mechanisms of disease and treatments, and biomedical ethics. The course will engage students through a variety of formats such as lectures, interactive exercises, virtual labs and simulations, group work, and lab experiments. The goal of the course is to provide students with a glimpse of the current concepts and challenges in human health and disease.

**SHS 0090 Summer BASE Camp**
**0 Credits**

BASE Camp (Broadening Access to Science Education) is a two-week, residential camp for high school women interested in scientific research. Students have the opportunity to see what research in science is all about, and have fun in the process. BASE Camp is designed to engage female high school students in hands-on, research-based experiences in the natural sciences and mathematics, in an effort to inform and excite students about the process of science.

## Taxation (TX)

**TX 0500 Tax Research**
**3 Credits**

This course introduces students to tax research source materials and provides students with the opportunity to conduct tax research. After the course, students should be able to identify tax issues inherent in various fact scenarios, locate and evaluate various sources of tax law, and effectively communicate conclusions and recommendations based on their research.

**TX 0501 Tax Accounting**
**3 Credits**

This course introduces students to federal tax accounting and contrasts its effects with those of financial accounting. After the course, students should be able to identify accounting transactions and methods that have differing tax and financial statement treatments, and to understand and plan for the consequences of those differences.

**TX 0502 Tax of Property Transactions**
**3 Credits**

This course introduces students to the income tax laws impacting real property transactions. After the course, students should be able to identify tax issues stemming from various types of real property transactions and activities, as well as plan for the consequences of, and make recommendations for alternatives to, contemplated property transactions.

**TX 0510 Entity Taxation****3 Credits**

This course introduces students to the fundamental concepts, rules, and tax planning applications of the federal income taxation for different business entities including corporations, partnerships and trusts, in addition to estate and gift taxes. After the course, students should be able to identify the tax planning implications of different income taxation concepts and rules pertaining to business entity transactions including formation, operations, distributions, liquidation, and other transactions between the entity and its owners or beneficiaries.

**TX 0530 Partnership Taxation****3 Credits**

This course introduces students to the fundamental concepts of the federal income taxation of partnerships and partner-partnership transactions. After the course, students should be able to identify tax issues stemming from various partnership transactions and activities, including those between the partnership and the partners, as well as plan for the consequences of, and make recommendations for alternative structuring of, intended transactions and activities.

**TX 0540 State and Local Taxation****3 Credits**

This course helps students develop a conceptual understanding of the constitutional limits on a state's power to impose taxes, the determination of state-specific taxable income, the sales and use tax system, and various other state taxes. After the course, students should be able to identify the tax issues associated with the conduct of business in multiple states, as well as plan for the consequences of, and make recommendations for alternative structuring of, intended multi-state transactions and activities.

**TX 0542 International Taxation****3 Credits**

This course helps students develop a conceptual understanding of the federal income tax provisions applicable to non-resident aliens and foreign corporations. After the course, students should be able to identify the tax issues associated with the generation of U.S. taxable income by foreign individuals and corporations, as well as plan for the consequences of, and make recommendations for alternative structuring of, intended U.S. transactions and activities by these particular taxpayers.

**TX 0550 Tax Planning****3 Credits**

This course develops a framework for understanding how taxes affect business decisions, and provides students with the tools to identify, understand, and evaluate tax planning opportunities in various decision contexts, such as investments, compensation, organizational form choice, and multinational endeavors. Open only to students enrolled in MS Accounting, MBA Taxation, or Taxation Grad Cert programs, or by permission from the Department Chair or designee.

**TX 0585 Seminar: Contemporary Topics in Taxation****3 Credits**

This course presents recent practitioner and academic literature in various areas of taxation, including guest speakers where appropriate. Topics change semester to semester, depending upon faculty and student interests.

**TX 0591 Practicum in Taxation****3 Credits**

This course builds on the in-class lessons covered during the student's graduate studies by providing the student with the opportunity to apply his/her academic knowledge to a professional taxation context. As such, it is an experiential learning activity. Successful completion of the practicum will entitle students to three credits that count as a graduate-level taxation elective. Enrollment by permission of the department chair or designee. This course may not be repeated for credit.

**TX 0598 Independent Study****3 Credits**

This course provides students with an opportunity to develop research skills while exploring a specific contemporary taxation issue with a full-time faculty specializing in the area of the discipline. Students are expected to complete a significant research paper as the primary requirement of this course. Enrollment by department chair permission only.

**TESOL and Bilingual Education (SL)****SL 0099 Comprehensive Examination in TESOL and Bilingual/Multicultural Education****0 Credits****SL 0419 Special Learners in the Bilingual/ESL Classroom****3 Credits**

Designed to familiarize bilingual and ESL teachers with the developmental learning needs of children and adolescents who are exceptional, this course examines the special learning needs of linguistically and culturally diverse children, exploring methods of identifying and working effectively with exceptional children and adolescents in bilingual or ESL classrooms. Crosslisted with SE 0419.

**SL 0420 Linguistic Foundations of English Acquisition****3 Credits**

This course focuses on the various theoretical components related to developing linguistic competency in English and provides related information associated with the foundational knowledge of reading and language arts. A primary focus is phonology and related contrastive linguistics, and its relationship to reading decoding. Also addressed are the linguistic components of: (a) morphology and vocabulary; (b) syntax, grammar, and sentence structure; and (c) associated constructs of attention such as working memory and executive functions that impact maintaining newly learned information. Students will have the opportunity to: (a) explore current research regarding developing linguistic competency; (b) analyze linguistic similarities and differences between languages; (c) read about typical and atypical reading and language development of English learners (ELs); and (d) become acquainted with current technological tools to support ELs acquisition of linguistic skills.

**SL 0421 Linguistics and Language Assessment****3 Credits**

This course focuses on the instructional application of the theoretical concepts learned in SL 0420 to English learners' reading and language development. Areas of study include the following: 1) Assessment of English learners' development of English phonology, morphology, and syntax; 2) interpretation of assessment results for the purpose of diagnosing English development; and 3) the use of language assessment results to develop instruction and intervention strategies to support English learners in mainstream, as well as Tier 1, Tier 2, and Tier 3 programs.

**SL 0422 Teaching Grammar in Second Language Settings****3 Credits**

Grammar is a necessary component of language programs. This course provides foreign/second language and bilingual teachers with techniques to facilitate their students' acquisition of grammar, to illustrate effective contextualization of grammatical principles, and to examine instructional strategies that draw the learner's attention to specifically structural regularities. The course also analyzes the theoretical considerations of second language grammar teaching.

**SL 0423 Foundations of Bilingualism and Bilingual Education 3 Credits**  
 This foundation course examines research and theories underlying bilingualism. Candidates gain an understanding of the concepts and issues involved in using the principles of bilingualism in educational settings. The course also includes an overview of the historical development of bilingual education in the United States and other countries and a discussion of major programs and social models for bilingual education.

**SL 0433 Elementary TESOL/Bilingual Advanced Practicum 3 Credits**

**Prerequisite:** SL 0436 or SL 0451.

This course provides TESOL/Bilingual Education candidates with opportunities for supervised internships in TESOL or bilingual elementary classroom settings. Students complete a minimum of 48 hours fieldwork in classroom settings where they will observe instructional practices and interact with and plan instruction for students learning English as a second language. In practicum seminar, candidates will reflect on and deepen their understanding of the ways in which the educational context and diverse educational needs of students have an impact on their learning and academic progress.

**SL 0436 TESOL Methods and Materials Development 3 Credits**

Designed for second language teachers and prospective teachers, this course explores methods, techniques, strategies, and instructional media relevant to teaching English language learners, emphasizing the development and enhancement of communicative environments in language classrooms. Participants examine a variety of innovative methods and discuss the adaptation and development of materials and assessment instruments. This course meets the state requirement for the certificate for teaching English to adult speakers of other languages.

**SL 0439 Methods of Foreign Language Teaching for Elementary School 3 Credits**

This course is designed for pre- and in-service World Language teachers seeking the Elementary World Languages cross-endorsement. Candidates will gain an understanding of current theory and methods of teaching foreign languages in the elementary school (FLES) grades K-6. They will examine similarities and differences between FLES program models and develop an understanding of the issues related to program development. Topics will include the selection of developmentally appropriate strategies and materials for elementary foreign language teaching, lesson planning and curriculum development, and use of technology-assisted instruction. Candidates will develop their ability to integrate the ACTFL and CT World Languages Standards into FLES instructional program development and lesson planning.

**SL 0441 Teaching and Learning within Multicultural Contexts of Education 3 Credits**

This course explores and addresses the multifaceted aspects of multicultural education with the aim of engaging in a teaching-learning process where participants explore their commitment to the well-being and learning of all students; develop a deep understanding of the needs of all students; develop strategies to promote caring, justice, and equity in teaching; learn to respect linguistic, racial, ethnic, gender, and cultural diversity; investigate how students construct knowledge; demonstrate an understanding of the relationship between students' daily life experiences and education; and critique systematic processes of discrimination that marginalize and silence various groups of students. Crosslisted with ED 0441.

**SL 0450 Second Language Methods for Secondary Teachers (Grades 6-12) 3 Credits**

**Prerequisites:** SL 0423, SL 0527\*.

This course provides an overview of second language theory and methods, curriculum models, materials selection and development, and content-based ESL for teaching secondary English language learners. The role of literacy in second language acquisition and the appropriate integration of technology to enhance second language teaching and promote secondary students' learning will be examined. Culture, language, dialect variation, and diversity and their implications for the secondary school curriculum will also be addressed. (\* indicates concurrency allowed)

**SL 0451 Infusing Content Language Instruction into TESOL/Bilingual Programs 3 Credits**

**Prerequisites:** SL 0423 or SL 0467; SL 0436.

Designed for ESL and bilingual teachers, this course explores teaching strategies that enable the English language learner to understand the discourse of content subjects. Topics include strategies to develop academic language, oral presentation skills, content specific syntax and grammar, and writing. Participants will examine textbooks and develop materials that infuse content-area language into the ESL program. Procedures for assessing student progress in content area language development will be discussed.

**SL 0453 Differentiated Instruction for English Language Learners 3 Credits**

Designed for foreign/second language/TESOL and bilingual teachers, this course will also assist content area and classroom teachers. Its purpose is to explore the basic concepts, research, and principles of differentiated instruction as a means to meet the diverse needs of students in today's classrooms. Participants will be able to align the concepts to their present teaching environments.

**SL 0461 Reading and Writing in a Second Language 3 Credits**

Designed for second/foreign language and bilingual teachers, this course examines current theory and research underlying first- and second-language reading and composing processes. Additional topics include procedures for understanding and analyzing the problems that characterize second language readers and writers; strategies for assessing student performance; evaluating and adapting materials; and enhancing the comprehension and creation of written second language discourse.

**SL 0467 Language Acquisition 3 Credits**

This course introduces the core hypotheses of current theory on language acquisition. Participants learn to recognize fundamental patterns of social and cultural contexts that facilitate language acquisition, build upon the processes and stages of language acquisition and literacy to provide comprehensible input, facilitate communicative competence and evaluate teaching and learning strategies across ability levels and within discipline-specific content areas. Approved for the Elementary Foreign Language cross-endorsement.

**SL 0475 Sociolinguistics 3 Credits**

This course examines variability in language use according to region, race or ethnic background, gender, and personality with the goal of developing sensitivity to variation in one's own language and that of others, and examining language variation using the methods and insights of contemporary linguistics.

<b>SL 0477 Culture and Second Language Acquisition</b>	<b>3 Credits</b>	<b>SL 0527 Testing and Assessment in TESOL and Bilingual Programs</b>	<b>3 Credits</b>
Designed for second language and bilingual teachers, this course treats culture and language as interdependent phenomena, exploring the basic concepts, research, and principles applicable to culture and language learning with an emphasis on the practical application of these concepts to the language classroom. Participants also gain an enhanced awareness of their assumptions regarding their own and other cultures, and an understanding of how these assumptions influence language teaching and learning.		<b>Prerequisites:</b> SL 0423 or SL 0467; SL 0436.	
<b>SL 0489 Secondary TESOL/Bilingual Advanced Practicum</b>	<b>3 Credits</b>	<b>SL 0528 Second Language Curriculum Development</b>	<b>3 Credits</b>
<b>Prerequisite:</b> SL 0436 or SL 0451.		This course familiarizes foreign/second language and bilingual teachers with the theory underlying the development of second language curricula. The course emphasizes devising curricula in accordance with the needs of learners and presents strategies for analyzing needs, developing curricula that focus on communication, and evaluating and choosing appropriate materials and assessment instruments.	
<b>SL 0498 Thesis Seminar</b>	<b>3 Credits</b>	<b>SL 0530 Content Language &amp; Reading Acquisition for English Language Learners and Students with Special Needs</b>	<b>3 Credits</b>
Candidates who have selected the thesis option for completion of the M.A. degree develop their research proposals, carry out the research, and complete their theses during this seminar. An approved thesis must be submitted to fulfill this degree requirement.		Using a train-the-trainer model, this course develops literacy leadership skills to train others and develops understanding of foundational reading concepts and strategies to better prepare prek-12 teachers to teach EL students how to read. This course is designed for candidates to learn about the developmental learning needs of culturally and linguistically diverse students, exceptional learners, and bilingual students with special needs, as well as working in collaborative data teams. Candidates will explore the similarities and differences between bilingual/TESOL students and students with-special-needs with a focus on reading skills development (e.g. phonology, orthography, morphology, syntax, semantics, etc.) Candidates will learn about instructional strategies that all teachers can use in their classroom to support reading development for all students. Crosslisted with RLD 0530.	
<b>SL 0504 English Language Learners in the Regular Classroom</b>	<b>3 Credits</b>	<b>SL 0540 Capstone Seminar in English Acquisition Pedagogy</b>	<b>3 Credits</b>
Designed to familiarize the mainstream teacher with the learning needs of children and adolescents who are linguistically and culturally diverse, this course employs an overview of second language acquisition theory as the framework for discussing ways to meet the needs of English language learners. Teachers also learn strategies for developing and adapting materials for creating communicative classroom environments and assessing student performance.		This course provides candidates in the TESOL and Bilingual Education MA programs with the opportunity to conduct an action research project in their classroom related to teaching English language learners. Through the course seminar and discussions, as well as individual conference sessions, students will deepened their understanding of the ways in which the learning environment, personal challenges, and educational needs of ESL and bilingual students from linguistically and culturally diverse backgrounds impact their academic progress. By conducting research in field settings, course participants will become familiar with the various issues and factors that influence the development and implementation of programs for second language learners and those who teach them. The research practicum will enable candidates to apply their understanding of prior bilingual and ESL coursework to the development and implementation of instructional support activities and/or a research project related to the education of ESL and Bilingual K-12 students. Candidates must have completed 24 credits in their program of study before enrolling in this course.	
<b>SL 0522 Emergent Literacy in Bilingual Early Childhood Education</b>	<b>3 Credits</b>	<b>SL 0568 Special Topics (Shell)</b>	<b>1-3 Credits</b>
This course is designed to prepared teachers of early childhood education (Pre-K to 3) to work effectively with culturally diverse children who are learning English as an additional language in pre-school and school contexts. The course focus is on first and second language development in the young child with implications for emergent literacy teaching and learning. Culture and childrearing practices, their impact on schooling, and strategies to build successful partnerships with families and communities will also be discussed.		<b>Prerequisite:</b> Completion of 12-15 credits of program coursework or advisor permission.	
<b>SL 0526 Historical and Sociopolitical Issues in Bilingual/Multicultural/ESL Education</b>	<b>3 Credits</b>	The special topics course in TESOL and Bilingual Education varies in content, as needed, in order to provide timely opportunity to explore time-sensitive, new and emerging topics and foci on a one-time basis, or to offer a pilot section of a new course in development.	
This course, which is conducted as a seminar, provides an overview of the historical events and philosophical issues underlying bilingual/multicultural/ESL education and discusses contemporary socio-political controversies surrounding bilingual/multicultural and ESL instruction.			

**SL 0581 Directed Observation and Supervised Student Teaching 6 Credits**

This course for candidates who have been approved as qualified candidates for teaching in TESOL or bilingual education involves candidates in observation and teaching five days a week for one semester. In accordance with certification regulations, candidates spend half of the student-teaching period in an elementary setting and half in a secondary setting. The course emphasizes classroom management dynamics, teaching techniques, lesson plan organization, and faculty duties. Candidates participate in group seminars and individual conferences; the university supervisor(s) and the cooperating teacher(s) assist, observe, and evaluate each candidate. Prerequisites: Formal acceptance into teacher preparation program and completion of all certification requirements

**SL 0582 TESOL/Bilingual Student Teaching and DSAP I Seminar 3 Credits**

Candidates take this weekly seminar concurrently with student teaching or DSAP. Part I. The seminar focuses on the issues and problems faced by student teachers and on the culture and organization of the schools. Although much of the seminar's subject matter flows from the on-going student teaching experience, it address issues such as school governance, school and district organizational patterns in TESOL and bilingual programs, classroom management, conflict resolution, communication with parents, and sensitivity to multicultural issues and inclusion, as well as the job application process, including resume writing, interviewing, and the development of professional and teaching portfolios.

**SL 0588 Directed Observation I for TESOL/Bilingual DSAP****Candidates                          3 Credits**

**Prerequisite:** All requirements for student teaching; approval of program director and dean.

This course is designed for candidates working in a public elementary or secondary school under a DSAP. Two semesters of observation are required. Candidates are observed and evaluated by a University supervisor a minimum of three times each semester. The supervisor collaborates with the candidate, his/her mentor, and with school personnel who are assigned to assess the candidate at the district level. Concurrent participation in a collegial reflective seminar is an element for this field experience.

**SL 0589 Directed Observation II for TESOL/Bilingual DSAP****Candidates                          3 Credits**

These courses are designed for candidates working in a public elementary or secondary school under a DSAP. Two semesters of observation are required. Candidates are observed and evaluated by a University supervisor a minimum of three times each semester. The supervisor collaborates with the candidate, his/her mentor, and with school personnel who are assigned to assess the candidate at the district level. Concurrent participation in a collegial reflective seminar is an element for this field experience.

**SL 0590 Sixth Year Certificate Advanced Research Practicum in TESOL/ Bilingual Education                          3 Credits**

Candidates solve a practical problem in classroom teaching, applying educational research to a specific ESL/bilingual school situation.

**SL 0595 Independent Study****3 Credits**

Candidates complete individual study with the written permission of the department chair, having submitted their proposals prior to registration.

## **Theatre (TA)**

**TA 0011 Introduction to Theatre****3 Credits**

**Attributes:** VPCH Visual and Performing Arts Core: History Course

When we can download any movie we want to our computer and watch it from the comfort of the residence hall, why do live theatre? Why see live theatre? Does live theatre have anything to offer that movies and TV cannot? Is it worth doing or seeing? Actually, the act of witnessing live theatre challenges us to think more deeply, more critically, and more thoughtfully about our society and ourselves. Theatre can change the world. This course is about understanding why we need theatre in our lives, and becoming more active, more engaged, more attentive audience members.

**TA 0030 Acting I****3 Credits**

**Attributes:** VPC2 Visual and Performing Arts Core: Applied Course

This class is an intensive introduction to technique and training essential to acting. Manifesting the understanding of key concepts through demonstrating skills is the primary focus of the course. Physical openness and responsiveness are explored and developed in pursuit of performance that is dynamically immediate and wholly engages audience, ensemble, and performer. Students will learn and practice Viewpoints, an approach to performance that allows performers to develop stage presence, play as a member of an ensemble, and make exciting performance choices. The class also introduces vocal technique for stage, the key ingredient to theatrical storytelling.

**TA 0094 Theatre Fairfield: Performance Practicum****1 Credit**

Students gain first-hand training in performance under the guidance of theatre professionals. Everyone cast in a Theatre Fairfield production is automatically enrolled in this one-credit practicum. Students may also earn credit by enrolling in weekly Performance Workshops, which focus each semester on introducing a particular performance skill. Some of the topics covered in previous Performance Workshops include: clowning, stage combat, physical performance, and puppetry. This course may be repeated but may not be included in the 120 credits required for graduation.

**TA 0095 Theatre Fairfield: Production Practicum****1 Credit**

Students gain first-hand training in theatre production under the guidance of theatre professionals. Everyone working on a crew of a Theatre Fairfield production is automatically enrolled in this one-credit practicum. Students must consult with theatre faculty regarding placement as a crew head in stage management, technical, or front-of-house duties. This course may be repeated but may not be included in the 120 credits required for graduation.

**TA 0106 Theatre Management****3 Credits**

**Attributes:** VPC2 Visual and Performing Arts Core: Applied Course

When considering a theatre event, we usually think of actors performing for an audience. Yet, there is a network of factors ensuring a successful actor/audience connection. On the management side, there is the stage manager, making sure that every moment of the performance runs smoothly. On the administration side, there are other issues: Where did the money come from? How did the audience learn about the production? What is the overriding purpose of the theatre company? This course introduces the numerous managerial and administrative matters that are necessary for theatre production.

**TA 0110 World Theatre I****3 Credits**

**Attributes:** VPCH Visual and Performing Arts Core: History Course  
 Theatre serves as a vehicle to consider the social, political, and economic forces that shaped societies and their entertainments. This course surveys theatre and performance as a mirror of the people and times that shaped them. It begins with a consideration of the human need for mimesis and entertainment, and swiftly moves into the golden age of Greek drama. Other topics include Roman theatre, medieval religious drama, Japanese theatre, Renaissance spectacle and pageantry, censorship, the advent of women on the stage, and popular theatre forms through the 18th century. The course includes theatre trips.

**TA 0111 World Theatre II****3 Credits**

**Attributes:** VPCH Visual and Performing Arts Core: History Course  
 This course examines 19th- and 20th-century theatre and performance in the context of the people and societies that shaped them. It begins by examining the impact of technology on the theatrical world and continues to the present day with a consideration of the avant-garde and contemporary forms such as performance art. The course includes theatre trips.

**TA 0120 American Drama****3 Credits**

**Attributes:** ASGW American Studies: Gateway, ASVP American Studies: Visual and Performing Arts, E\_AF English Literature After 1800, UDIV U.S. Diversity, VPCH Visual and Performing Arts Core: History Course  
 This course examines the development of American theatre from the 18th through the 21st centuries. It includes a study and analysis of the special problems affecting the development and changes in American society as seen through American playwriting and theatre production. Students read over twenty plays that grapple with issues of race, ethnicity, gender, class, and what it means to be an American. The course includes theatre trips.

**TA 0123 American Women Playwrights****3 Credits**

**Attributes:** ASGW American Studies: Gateway, ASVP American Studies: Visual and Performing Arts, ENAM American Literature, E\_AF English Literature After 1800, UDIV U.S. Diversity, VPCH Visual and Performing Arts Core: History Course, WSGF Women, Gender, and Sexuality Studies: Gender Focused

This course traces the evolution of plays by women from the Revolutionary War to plays reflecting the 21st-century concerns of African American, Asian, American, and Latina playwrights. Plays are discussed in light of the social, political, and economic climates that produced them. Special emphasis is given to questions of sex, gender, race, ethnicity, and class, as we explore how American women, despite considerable obstacles, have developed their own theatrical voices. Our study is further informed by the work of feminist performance theorists.

**TA 0135 Modern and Contemporary Dance****3 Credits**

**Attributes:** VPC2 Visual and Performing Arts Core: Applied Course  
 This course explores the movement principles of the major dance figures in the 20th century, including Martha Graham, Doris Humphrey, Hanya Holm, Jose Limon, and Merce Cunningham. Students complete research, compositional assignments, and structured improvisations to support the classroom activity. Overall, students gain a historical perspective of modern dance as an art form and improve their own dance technique in terms of strength, alignment, and flexibility.

**TA 0138 Folk and Social Dance****3 Credits**

**Attributes:** VPC2 Visual and Performing Arts Core: Applied Course  
 This course explores dance as social interaction and communal activity. Students discuss and participate in various kinds of folk dances originating from different ethnic cultures and explore their common roots in primitive rituals, religious worship, courtship, recreation, celebration, and therapeutic or healing experiences. The course also explores contemporary forms of ballroom, disco, and club dancing. Students complete research, compositional assignments, and structured improvisations to support classroom activity.

**TA 0150 Introduction to Entertainment Technology****3 Credits**

**Attributes:** VPC2 Visual and Performing Arts Core: Applied Course  
 This course is an introduction to the technical aspects of theatre production. Students learn basic techniques of set construction, rigging and stage lighting. Lectures serve as foundational information for a series of lab sessions held throughout the semester. In labs, students construct, rig and light a fully realized Theatre Fairfield production. Proper use of hand and power tools is emphasized. Lab schedules are created during the first weeks of class, in consultation between the instructor and students. To compensate students for the lab requirement, students earn one credit through enrollment in TA 0095.

**TA 0153 Stage Makeup and Costume Construction****3 Credits**

**Attributes:** VPC2 Visual and Performing Arts Core: Applied Course  
 This course introduces the basic principles, skills, and techniques of applying theatrical makeup and building costumes. The makeup portion explores two- and three-dimensional makeup techniques including corrective makeup, age makeup, facial hair, and prosthetic makeup. The costume portion focuses on hand and machine sewing techniques, fabrics and fabric modification, and garment construction. Students are required to participate in costume construction for Theatre Fairfield productions. To compensate students for the lab requirement, students earn one credit through enrollment in TA 0095.

**TA 0155 Design I****3 Credits**

**Attributes:** GDTA Graphic Design: Theatre, VPC2 Visual and Performing Arts Core: Applied Course  
 Designing for the theatre involves a series of interrelated actions: play analysis, visual research, ideation, development, drawing/painting, and collaborating with others. In this class, students study and practice all of these areas of the creative process. In addition, students study the underlying theories and principles that affect scenery, costume and lighting design.

**TA 0158 Scene Painting****3 Credits**

**Attributes:** GDTA Graphic Design: Theatre, VPC2 Visual and Performing Arts Core: Applied Course  
 This workshop introduces the basic principles, skills, and techniques of the scenic artist. Through a series of painting projects, students explore common painting techniques. The course gives special attention to matching the paint project to the paint elevation, as well as developing creative thinking skills. Projects emphasize craftsmanship and the ability to work as part of a team in addition to dealing with the time factors of actual production. Students research various techniques, styles, and visual textures in addition to hands-on work in the class. Students serve as members of a paint crew for a Theatre Fairfield production.

**TA 0210 Theatre in Production****3 Credits**

Students take this course in conjunction with a particular Theatre Fairfield production. This course offers an immersion experience, as students engage in focused theatrical research in the classroom and immediately apply the concepts in the production. The class/production format makes particularly challenging scripts and/or artistic approaches possible. Some of the topics covered in previous semesters include Restoration comedy, performing Shakespeare, and devised theatre.

**TA 0215 American Musical Theatre: History and Practice**      **3 Credits**

**Attributes:** UDIV U.S. Diversity, VPCH Visual and Performing Arts Core: History Course

**Prerequisite:** One Music or Theatre course.

Musical theatre is a complex genre that has developed in tandem with the developing American nation. It is a serious art form that, in its finest iterations, represents total works of art unique in and of themselves. This course expands students' knowledge of the range and diversity of the genre as codified in the middle 20th century by Rodgers and Hammerstein and their imitators. Embedded in great musical theatre pieces is the essence of what it means to be an American living in the United States at a particular time in history.

**TA 0230 Acting II**      **3 Credits**

**Attributes:** VPC2 Visual and Performing Arts Core: Applied Course

**Prerequisite:** TA 0030.

This is an intensive acting course that builds upon the basic acting principles taught in Acting I. In this course, students apply what they have learned about the art, analysis, and interpretation of acting to a variety of dramatic styles. Students explore several period acting styles through exercises, scenes and monologues. Students gain a well-rounded and thoughtful understanding of acting as a practical and intellectual art that prepares them for further work in theatre and related performing arts.

**TA 0231 Acting for the Camera**      **3 Credits**

**Attributes:** VPC2 Visual and Performing Arts Core: Applied Course

**Prerequisite:** TA 0030.

This course is an introduction to the specialized techniques used in successful on-camera acting. On-camera exercises emphasize the importance of listening, truthful moment-to-moment response, and effective communication skills. Initial classes examine the difference between acting for the stage and acting for the camera. Students practice a variety of on-camera styles including comedy, crime drama, and commercials. The course builds towards longer scene work from a screenplay. Topics include script analysis, nuance and depth of performance, relaxation and confidence on-camera.

**TA 0240 Directing**      **3 Credits**

**Attributes:** VPC2 Visual and Performing Arts Core: Applied Course

**Prerequisite:** TA 0030.

This course for advanced students covers the theory, practice, and history of directing for the theatre. In a workshop format, students explore various ways of bringing a play script from conception to full production. The course includes sessions in text analysis, working with actors and designers, and the role and responsibility of the director to the overall production. Students direct several in-class scenes and a one-act play that is produced in Director's Cut, part of Theatre Fairfield's season.

**TA 0253 Costume Design****3 Credits**

**Attributes:** GDTA Graphic Design: Theatre

**Prerequisite:** TA 0155.

Before a character even speaks, we have a strong sense of who that person is, based on our impression of the costume design. This class focuses on how costume designers engineer strong connections between the world of the play and the audience's experience. Play analysis, historical research, visual research, idea-generation, design development and rendering styles are addressed. Emphasis is placed on a sound creative process, as well as grounding our designs with historical accuracy.

**TA 0256 Stage Lighting****3 Credits**

**Prerequisite:** TA 0150 or TA 0155.

With light on stage, we create a vast array of environmental moods. In order to accomplish these effects, students must grasp two separate fields of information. First, there are technical elements: the nature of light, electricity, reflection, refraction, lighting instruments and control systems. Then there is light in the context of the theatrical production. This involves play analysis, visual research, and manipulating light in the theatre space. Both the technical and aesthetic aspects are covered in this class. Safe use of electricity and lighting equipment is emphasized.

**TA 0288 Scene Design****3 Credits**

**Attributes:** GDTA Graphic Design: Theatre

**Prerequisite:** TA 0155.

In a play, scenery provides the context, allowing the audience to connect to the characters and their dramatic journey. Not merely locale, scenery is a visual accompaniment to the action of the play. In this course, students develop their drafting, rendering and model-making skills, as these are the designer's principle communication tools. The course includes play reading, analysis and historical research. Emphasis is placed on a sound creative process, as well as grounding designs with historical accuracy.

**TA 0300 Special Topics (Shell)****3 Credits**

**Attributes:** VPCH Visual and Performing Arts Core: History Course

In this class, students undertake an in-depth study of a specific problem. This might include period research, dramaturgy, a particular style of acting, a particular style of design, or other aspect of production. The course is conducted by a leading scholar/practitioner in the field. The course is open to invited students only.

**TA 0310 Capstone: Theory of Production****3 Credits**

**Attributes:** VPCH Visual and Performing Arts Core: History Course

This course is an in-depth exploration of theatre aesthetics and production theory. Students consider what theatre is, can, and should be, while studying varying perspectives on theatrical design, directing, and staging practices. Class sessions focus on analyzing the writings of such major figures as Antonin Artaud, Peter Brook, Edward Gordon Craig, Robert Edmond Jones, and Susan Sontag. This is the capstone class for theatre majors and minors but other interested students with sufficient background are welcome.

**TA 0395 Internship****3 Credits**

**Attributes:** VPC2 Visual and Performing Arts Core: Applied Course

With faculty sponsorship, students work with professional theatre companies and theatre artists. Students develop their skills in real-world situations, while networking and gaining invaluable work experience. Internships are also available on-campus, within Theatre Fairfield. Students interested in becoming interns must consult with theatre faculty well in advance of the desired internship semester. Internships for summer work are encouraged.

**TA 0399 Independent Study****1-3 Credits**

**Attributes:** VPCH Visual and Performing Arts Core: History Course  
This course allows students to intensively explore a particular aspect of stage management, design, acting, directing or dramaturgy under the guidance of a faculty member. Students must have the approval of the theatre faculty before registering for this course.

## **Women, Gender, and Sexuality Studies (WS)**

**WS 0299 Internship****3 Credits**

**Attributes:** WSGF Women, Gender, and Sexuality Studies: Gender Focused  
The internship program allows students to gain on-site experience that can be related to the discipline of Women, Gender and Sexuality Studies. Internship areas include health, publishing, communications, politics, and many other fields. Students consult the program director for a list of internship opportunities before registering for this course. Faculty supervision helps students integrate their experiences with the intellectual foundation acquired in their academic courses.

**WS 0301 Women, Gender, and Sexuality Studies Capstone****Seminar****3 Credits**

**Attributes:** PJST Peace and Justice Studies, WSGF Women, Gender, and Sexuality Studies: Gender Focused  
Students take this final course in the minor sequence in the senior year after completing the other five required courses. The course integrates feminist approaches across the disciplines, emphasizing the relationship between theory and practice. It is open to seniors only; juniors may enroll with the permission of the program director.

**WS 0399 Independent Study****1-3 Credits**

**Attributes:** WSGF Women, Gender, and Sexuality Studies: Gender Focused  
By arrangement with Women, Gender, and Sexuality Studies faculty, students may choose to work independently on special topics. See the program director for details.

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