FAIRFIELD UNIVERSITY COURSE DESCRIPTIONS 2026-2027

FAIRFIELD UNIVERSITY

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COURSE DESCRIPTIONS

Magis Core signature elements course tags are often placed on individual sections and may not be listed in course descriptions.

A

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Accounting (ACCT)

ACCT 1011 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.

ACCT 1012 Introduction to Management Accounting 3 Credits
Prerequisite(s): ACCT 1011.
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.

ACCT 2203 Intermediate Accounting I 3 Credits
Prerequisite(s): ACCT 1011.
This course builds on the fundamental concepts of financial accounting and reporting covered in Introduction to Financial Accounting. It provides an in-depth study of financial accounting theory and concepts, including balance sheet valuations and their relationship to income measurement and determination, as well as the presentation of financial statements in conformity with Generally Accepted Accounting Principles (GAAP). Using a practice set, students create financial statements from transactions to reinforce their knowledge of the accounting cycle.

ACCT 2204 Intermediate Accounting II 3 Credits
Prerequisite(s): ACCT 2203.
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 ACCT 2203. 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.

ACCT 2250 Role of Money and Accounting in Society 3 Credits
This course is designed to give students two viewpoints on a variety of topics that involve personal finance and concepts that are not always taught in a practical way. One viewpoint will be from the eyes of a practicing accountant/CPA and the other will be from a sociologist. Assessing different perspectives and approaches is critical to personal, civic, and professional development, as well as the ability to critically engage social science scholarship and professional best practices. Topics will range from budgeting to buying a house versus renting, savings, retirement, investing, insurance, income taxes, banking, accounting, reading financials, and fraud, as well as general discussions about wealth and income inequality. The class explores a variety of theoretical as well as practical approaches to navigate the complexity regarding money and finance in contemporary American society as well as abroad. Crosslisted with SOCI 2130.

ACCT 2265 Standalone Accounting Systems: Development and Use 3 Credits
Fee: $165 Graduate Finance Technology Fee
Prerequisite(s): ACCT 2203.
This course covers how accounting data are captured, processed, stored and disseminated in a standalone accounting information system, and the importance of an effective system of internal controls. Employing a common general ledger program, the course incorporates a hands-on approach in which students are taught the flow of data from system set-up, to data entry, and to report generation and customization. Students also develop a chart of accounts from scratch and learn how data flows into the financial reporting model.

ACCT 2980 Internship 1 Credit
Prerequisite(s): Sophomore standing.
Students gain practical experience in accounting. Students must be matriculated in the Dolan School of Business and have a GPA of 2.5 or higher. Enrollment by permission only.

ACCT 3255 Accounting Information Systems 3 Credits
Prerequisite(s): ACCT 2203.
This course prepares students to be effective users, evaluators, designers and auditors of accounting information systems (AIS). It examines several typical business processes, such as order entry/sales, billing/accounts receivable/cash receipts, and purchasing/accounts payable/cash disbursements and their associated AIS. Major themes throughout the course include oral and written communication, objectives and procedures of internal control, typical business documents and reports, proper system documentation through flowcharts and other techniques, systems analysis and design methodologies, and assessment of information processing in support of operational and strategic objectives in the context of rapidly changing technological advances. The course presents students with hands-on experience with the process, risk and control implications of enterprise systems coupled with an in-depth field-based business process analysis and gives students exposure to state-of-the-art AIS.

ACCT 3265 Enterprise-wide Accounting Systems: Design and Control 3 Credits
Prerequisite(s): ACCT 2203.
This course covers fundamental concepts inherent in establishing and maintaining accounting systems that are integrated within a company's enterprise resource planning (ERP) system, with an emphasis on mitigating financial reporting and data ethics risks. Topics include best practices in designing systems to promote data integrity and security (e.g., Completeness, Accuracy, Validity and Restricted access, referred to as "CAVR").

ACCT 3275 Data Analytics in Accounting and Taxation 3 Credits
Prerequisite(s): ACCT 3265 or ACCT 3330 or ACCT 3343.
This course provides students with the opportunity to combine accounting/taxation, technology and analytical methods. Students will address real world problems in accounting and taxation using contemporary analysis tools to collect, clean and analyze large, accounting- and tax-specific sets of data. Students also will learn to present project results using appropriate visualizations and reports.

ACCT 3320 Cost Management 3 Credits
Prerequisite(s): ACCT 1012 and 2203.
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.

ACCT 3320L Cost Management Lab 1 Credit
Corequisite(s): ACCT 3320.
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.

ACCT 3330 Auditing 3 Credits
Prerequisite(s): ACCT 2204.
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.

ACCT 3343 Federal Income Taxation I 3 Credits
Prerequisite(s): ACCT 2203.
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.

ACCT 3344 Individual Taxation: Socioeconomic Applications 3 Credits
Prerequisite(s): ACCT 3343, junior standing.
This course builds on the knowledge students obtained in ACCT 3343. 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.

ACCT 3345 Federal Income Taxation II 3 Credits
Prerequisite(s): ACCT 3343, junior standing.
This course continues the study of taxation begun in ACCT 3343. 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.

ACCT 3380 Not-for-Profit Accounting 3 Credits
Course Tags: Public Administration Nonprofit Management
Prerequisite(s): ACCT 2204, junior standing.
This course examines accounting theory and concepts,and the reporting principles promulgated by the Financial Accounting Standards Board (FASB) as they relate to voluntary health and welfare organizations, healthcare organizations and universities and all types of not for profit organizations. Learning will be enhanced by a service learning experience.

ACCT 3900 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.

ACCT 3980 Internship 3 Credits
Prerequisite(s): Junior standing.
Students gain practical experience in accounting. Students must be matriculated in the Dolan School of Business and have a GPA of 2.5 or higher. Enrollment by permission only.

ACCT 3990 Independent Study 0-6 Credits
Prerequisite(s): 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.

ACCT 4310 Advanced Accounting 3 Credits
Prerequisite(s): ACCT 2204, 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.

ACCT 5400 Introduction to Accounting 3 Credits
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.

ACCT 6500 Accounting Information for Decision-Making 3 Credits
Prerequisite(s): ACCT 5400.
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.

ACCT 6510 Issues in a Regulatory Reporting Environment 3 Credits
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.

ACCT 6515 Property Transactions: Regulatory and Tax Issues 3 Credits
This course covers concepts that are relevant in practice for both a public and private accounting and taxation setting. Drawing on and integrating complimentary law and tax topics, the course will consider issues such as: real estate used in a trade or business or held for the production of rental income, ownership of a principal residence, and indirect ownership of real-estate interests in the form of securities under federal law, including a REIT, as well as secured transactions and bankruptcy. Crosslisted with TAXN 6515.

ACCT 6520 International Accounting 3 Credits
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.

ACCT 6525 Law of Commercial Transactions: Advanced Studies in the Uniform Commercial Code 3 Credits
This course provides students with a foundation in the Law of Commercial Transactions. The course begins with a review of the principles of common law contracts which underpins many aspects of the Uniform Commercial Code. This course entails an advanced study of several provisions of the Uniform Commercial Code (hereinafter referred to as "UCC" or "the Code"). The sections of the Code to be studied include Article 2 Sales, Article 2A Leases of Goods, Articles 3 and 4 Negotiable Instruments and Bank Deposits and Collections, and Article 9 Secured Transactions. With an emphasis on case analyses and/or problem sets, 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 the UCC. Crosslisted with TAXN 6525.

ACCT 6530 Accounting for Governments, Hospitals, and Universities 3 Credits
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.

ACCT 6550 Topics in Accounting Systems and Data Analytics 3 Credits
This course addresses technological topics of current interest to the accounting profession. Topics such as accounting information systems, cybersecurity, enterprise resource planning systems, and business intelligence may be discussed, but the focus of the class will be development of computer skills for extraction, data visualization, and cleaning and analysis of accounting data.

ACCT 6555 Issues in Internal Audit 3 Credits
This course covers internal audit from a broad perspective. Course topics cover three main areas: internal audit basics, risks, and metrics. During the course, students will develop critical thinking skills (particularly employing professional skepticism) and learn to effectively communicate their professional opinions.

ACCT 6560 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.

ACCT 6565 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.

ACCT 6570 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.

ACCT 6575 Data Analytics in the Accounting Profession 3 Credits
This course covers the application of data analytics techniques in assurance and tax. Students will gain hands-on experience applying contemporary data analysis techniques to collect, clean and analyze large sets of data in order to address discipline-specific problems. Students will also learn to use appropriate visualizations and reports to meaningfully present analysis results.

ACCT 6580 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.

ACCT 6585 Effective Communications for Accounting Professionals 3 Credits
In this course, students will practice communicating effectively in accounting settings. Topics include considering the communication needs of accountants' diverse audiences, adapting communications to varying purposes, and writing and speaking clearly and concisely in both preparing accounting-specific documents and in presenting accounting-focused information. Crosslisted with TAXN 6585.

ACCT 6900 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.

ACCT 6970 Research on Contemporary Issues in Accounting 3 Credits
This research seminar engages students in utilizing an analytical lens to develop and present recommendations for emerging issues, recent pronouncements of accounting rule-making bodies, and/or unresolved controversies in contemporary financial reporting and practice. Students apply AI-informed methods of data mining, information synthesis, forecasting, and evaluation to discipline-specific questions in accounting. Emphasis is placed on the systematic evaluation of AI-generated analyses and recommendations, including their accuracy, bias, and implications for organizational decision-making and performance. Alongside developing their analytical and critical thinking skills, students strengthen their professional communication skills.

ACCT 6980 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 their 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.

ACCT 6990 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 (AMST)

AMST 1003 American Studies Elective - 1000 Level 3 Credits

AMST 2201 Roots of American Culture 3 Credits
Course Tags: Magis Core: Interdisciplinary
Prerequisite(s): 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.

AMST 3980 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 only.

AMST 3990 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.

AMST 5401 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.

AMST 5405 Values and Ethics: Social Justice in America 3 Credits
This course explores the experiences of individuals and social movements in American culture who from a variety of traditions -- for example religious, political, cultural, philosophical -- found meaning in their lives and ways to make a difference in their worlds. Our approach in this course will examine contradictions and struggles: between the individual and the community, between the ideals which have always motivated Americans and the hard reality in which many Americans have lived, between the commitment to democracy and the tragic failure of its promise, and the ways in which individuals and groups nonetheless worked to build a better future.

AMST 5406 Power, Politics, and Institutions in the United States 3 Credits
This course focuses on a specific political institution or institutions that illustrates larger dynamics and aspects of power, politics, and institutions within the American experience. The overarching objective of the course is to explore the multi-faceted, dynamic, and intersecting dimensions of power within the American political and historical script, as formal rules and structures as well as human experiences, lived practices, beliefs, and cultural norms. Course readings thus encompass a mix of secondary but also primary sources, extending to court documents, statutes, law codes, estate records, diaries, wills, travel reports, novels, oral histories, and letters.

AMST 5407 America and the World 3 Credits
American identity is often imagined solely in terms of the internal dynamic that defines the United States as a nation; however, the idea of America has always been shaped trans-nationally in relation to the world beyond its borders: politically, economically, militarily, culturally. The purpose of this course is to consider in depth questions about how the idea of America has been, and continues to be, shaped beyond its geographical borders. Course themes may include, but are not limited to, the following: American exceptionalism, colonialism, imperialism, neoliberalism and consumer culture, globalization, foreign relations, military conflicts, anti-Americanism, immigration, and migration.

AMST 5408 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.

AMST 5409 The Radical Imagination 3 Credits
This course addresses the ways which dominant narratives of U.S. national identity have been sustained by "social imaginaries" and the ways in which those narratives are challenged by the "radical imagination" in wide-ranging contexts: social and political, religious, literary, the arts, popular culture; all of which might overlap and inform one another at a given historical moment. Using case studies and drawing from a wide range of cultural artifacts, this course explores the radical imagination in United States history.

AMST 5410 Gender in American Society 3 Credits
This course introduces students to the theories, methods, and concepts of the interrelated fields of Women's Studies and Gender Studies, Masculinity Studies, and Sexuality Studies. Our focus is on the contours of these fields, their application across disciplines, and their importance in American Studies. With gender as a key analytical tool, we examine the diversity and dynamism of gendered experiences, taking into account race, class, sexuality, among other facets of identity. The course relies upon theoretical readings and historically situated cultural artifacts to explore gender in the United States, past and present.

AMST 5453 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.

AMST 5461 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.

AMST 5471 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.

AMST 5479 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.

AMST 5483 America in the 1930s 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.

AMST 5484 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.

AMST 5486 Health and Healing in America 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.

AMST 5488 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.

AMST 5501 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 Wessleman 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.

AMST 5502 American Master Artists and Their Times 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.

AMST 5511 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.

AMST 5521 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.

AMST 5522 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.

AMST 5531 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 1920s, swing in the 1930s, bop in the 1940s, and present-day evolutions. The course emphasizes connecting the historical period with the music of jazz: America's original art music.

AMST 5532 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.

AMST 5541 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.

AMST 5551 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.

AMST 5561 Ethnic American Perf & 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.

AMST 5562 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.

AMST 5900 Special Topics (Shell) 3 Credits
Topics in American Studies not currently among the program's offerings may be offered once or to allow a professor the opportunity to "test drive" a course for the first time.

AMST 5990 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.

AMST 5999 American Studies Graduate Project 3 Credits
This course is the culminating component of the MA program in American Studies. 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 with the faculty mentor and will provide a proposal and preliminary bibliography. Specific guidelines are distributed by the Graduate Program Director.

Analytics (DATA)

DATA 1101 Business Analytics 3 Credits
This course introduces basic skills necessary for business analytics such as data analysis and preparation, probability and statistical modeling, data-driven decision making, and persuasion/storytelling with data. Spreadsheets are used as the platform for conducting analyses, performing statistical calculations, and presenting results. Previously DATA 2101.

DATA 1101L Excel Certification Lab 0 Credits
This is a required lab component of DATA 1101 with a focus on Microsoft Excel. The lab is designed to improve students' spreadsheet skills, which is vital in today's job market. The lab also prepares students to pass a certification exam that is offered in a secure, proctored format during the course. A passing grade in this lab corresponds to successful completion of the certification exam.

DATA 2000 AI 3 Credits
Prerequisite(s): DATA 1101.
This course focuses on the practical application of no-code artificial intelligence (AI) tools to solve complex business problems. These tools require no programming, instead emphasizing skills such as prompt engineering and the strategic use of large language models like ChatGPT. Through hands-on weekly projects and a comprehensive final project, students will learn to navigate and apply desktop and cloud-based generative AI tools in application areas including text, images, audio, video, code, and tabular data, preparing them to innovate and lead in the new age of AI.

DATA 2101 Business Analytics 3 Credits
Prerequisite(s): MATH 2217, sophomore standing.
This course introduces basic skills necessary for business analytics such as data analysis and preparation, probability and statistical modeling, data-driven decision making, and persuasion/storytelling with data. Spreadsheets are used as the platform for conducting analyses, performing statistical calculations, and presenting results. Previously BUAN 2101.

DATA 2140 Project Management 3 Credits
Prerequisite(s): ECON 3278 or MATH 1017 or MATH 2217.
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. Previously ISOM 2140.

DATA 2980 Internship 1 Credit
Prerequisite(s): Sophomore standing.
Students may take up to two semesters of a department-approved internship. Students must be matriculated in the Dolan School of Business and have a GPA of 2.5 or higher. Previously BUAN 2980.

DATA 3210 Business Analytics Methods 3 Credits
Prerequisite(s): DATA 1101.
This course focuses on quantitative modeling and analyzing business problems using spreadsheet software such as Excel, and data visualization software such as Tableau. Topics include 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. Previously BUAN 3210.

DATA 3235 Python Apps for Business Analytics 3 Credits
Prerequisite(s): DATA 1101.
This course introduces students to business analytics using Python. Students should gain a fundamental understanding of how analytics can be done using Python. Business problems will be used for assignments and projects. Technical topics include reading/writing to files, data types, variables, simple control logic, loops, strings, lists, dictionaries, functions, and structure. Previously BUAN 3235.

DATA 3260 Database Systems 3 Credits
Prerequisite(s): DATA 1101.
This course covers fundamental database concepts, such as tables and queries, using Microsoft Access. Students then gain hands-on knowledge with the industry-standard database language, Structured Query Language (SQL). A semester-wide project helps students bring together learned concepts. Students also learn how to use a popular data analytics software, Alteryx.

DATA 3335 Sports Analytics 3 Credits
Prerequisite(s): DATA 1101.
Virtually every sport has been improved in recent years with the introduction and widespread acceptance of analytical methods. Analytics help leagues, teams, referees, coaches, athletes, agents, and fans appreciate their favorite sports on a higher level. In this course, students will gain a broad perspective on the methods, findings, impact, and controversies within sports analytics across a variety of sports and e-sports, learn how to analytically evaluate and compare differing perspectives, and practice communicating findings to a non-analytical audience in an impactful and actionable way.

DATA 3980 Internship 3 Credits
Prerequisite(s): Junior standing.
Students may take up to two semesters of a department-approved internship. Students must be matriculated in the Dolan School of Business and have a GPA of 2.5 or higher. Previously ISOM 3980, BUAN 3980.

DATA 4000 Python Programming with AI 3 Credits
Prerequisite(s): DATA 2000.
This course aims to introduce students to Python programming, leveraging generative AI to enhance learning and practical application. The course will cover fundamental programming concepts, data structures, and logical thinking, while also focusing on the use of AI models to assist in coding and evaluating AI-generated responses. Ultimately, this course aims to prepare students for their future careers by equipping them with valuable technical skills and AI literacy.

DATA 4310 Business Intelligence 3 Credits
Prerequisite(s): DATA 3210, DATA 3260.
Business Intelligence (BI) is an umbrella concept covering the processes and methods of collecting, storing, and analyzing data generated from business operations or activities to make informed business decisions. Disparate industries, such as retail, healthcare, and education, have adopted BI for various decision support purposes. Since data in today's business environments is vast in volume and grows at a fast pace, utilizing computerized technologies helps managers make fact-based decisions to support business operations. This course provides an introduction to the use of business intelligence and data visualization in organizations, with emphasis on how data is gathered, stored, analyzed, and used. Topics covered include business intelligence, data warehousing, data visualization, and business reporting. Previously BUAN 4310.

DATA 4315 Data Mining and Applications 3 Credits
Prerequisite(s): DATA 3210, DATA 3260.
This course provides students with a practical understanding of data mining, applications, techniques, and tools, with a specific focus on business analytics. The pillars of the data mining process (data collection/extraction and mining) are demonstrated with real world examples. Applications of these techniques and tools to different areas are covered. A semester-wide team project provides students with hands-on experience to bring together data mining concepts learned. Previously BUAN 4315.

DATA 4990 Independent Study 3 Credits
Students pursue topics of special interest through independent study, research, and/or completion of a business analytics project under the supervision of a full-time faculty member. The Department Chair and Dean must approve the work. The student and the faculty project advisor must submit an application to the Registrar before registering for the course. 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 should have completed at least two advanced business analytics courses before taking the independent study. Previously ISOM 4990.

DATA 4999 Business Analytics Capstone 3 Credits
Prerequisite(s): Senior standing.
This course is the capstone for the business analytics major. Students collaborate on different types of analytical projects of varying scope and complexity. Each student acquires and applies specialized technical and managerial expertise as required for completing the projects. The capstone projects will be real-world, client-oriented, and faculty-guided applications. Supplementary instruction in analytical project design, development, and evaluation is provided on an as-needed basis within the context of the project work. Previously BUAN 4999.

DATA 5400 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. Previously BUAN 5400.

DATA 5405 Programming Fundamentals for Business Analytics 3 Credits
This course introduces the fundamentals of programming with a focus on core computational concepts and AI-assisted coding techniques that apply across general-purpose programming languages. Students will begin by exploring program structure, control flow, and data manipulation, while learning to harness AI tools to enhance problem-solving, debugging, and code development. Through concise lessons, quizzes, and interactive coding challenges, the course demonstrates how programming languages such as Python and R, combined with AI-augmented development, are utilized in contemporary Business Analytics environments. The course concludes with a comprehensive project that showcases both programming competency and the effective integration of AI-driven coding support in real-world analytical workflows.

DATA 5410 Analytics Programming for Business 1.5 Credits
This course focuses on quantitative modeling and analyzing business problems using spreadsheet software, such as Excel and its add-ins. Topics include 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. Open to MS Management students only. Previously BUAN 5410.

DATA 6100 Fundamentals of Analytics 3 Credits
This is an introductory level graduate course focusing on spreadsheet modeling to analyze and solve business problems. Topics include descriptive analytics, data visualization, predictive modeling, time series analysis, and data mining. Contemporary analytical models utilized in finance, marketing, accounting, and management are set up and solved through case studies. Previously ISOM 6500.

DATA 6500 Leading with Analytics and AI 3 Credits
This course provides a broad overview to the analytics profession, with a focus on data driven leadership, hands-on skills in analytics and AI, and ethics. Starting with a foundation of analytical framing, the course moves on to more advanced topics like data visualization and summarization, descriptive and inferential statistics, spreadsheet modeling for prediction, linear regression, risk analysis using Monte-Carlo simulation, linear and nonlinear optimization, decision analysis, and data storytelling. The course includes an introduction to prompt engineering and other AI basics, as well as discussions on ethics in the profession. The course culminates with a group research project using curated big data datasets, as well as individual exercises in problem framing intending to be a component of a capstone experience. Previously BUAN 6500.

DATA 6505 Data Engineering for Business Analytics 3 Credits
This course introduces fundamental techniques for collecting, preprocessing, and transforming data for business analytics and AI applications. Students develop hands-on skills in modern data processing and data mining, with an emphasis on feature engineering—both traditional and multimodal. The course explores how to convert raw data into meaningful, analyzable forms that power advanced analytical and machine learning models. Key topics include handling diverse data types, integrating information from multiple sources such as text, images, and videos, and applying methods for data acquisition and cleaning. By the end of the course, students will understand how effective data preparation and feature design serve as the foundation for predictive, descriptive, and AI-driven analytics introduced in more advanced courses.

DATA 6510 Data Design and Visualization 3 Credits
This course introduces data design and management. Starting from the traditional relational data model and database fundamentals, the course offers a hands-on introduction to Structured Query Language (SQL) for defining, manipulating, accessing, and managing data, accompanied by the basics of data modeling including entity relationship modeling and diagrams. The course also offers an introduction to NoSQL and data warehousing approaches to handling Big Data. The course further touches upon how artificial intelligence is shaping the field, including query generation and database design from natural language questions. The course concludes with a comprehensive data warehousing project that gives each student the opportunity to integrate and apply the new knowledge and skills learned from this class. Previously BUAN 6510.

DATA 6515 AI Ethics and Governance 3 Credits
This course focuses on governance frameworks for AI systems, including transparency, accountability, data privacy, consent, fairness, and social impact. Students will critically analyze AI governance frameworks drawn from sources such as the EU AI framework, NIST, and explainable AI (XAI) literature. Topics include assessment of transparency and risk, and the formulation of policy and governance recommendations. The course includes weekly readings, quizzes, case studies, and hands-on workshops. The final project centers on designing an AI governance framework for a real or realistic AI deployment.

DATA 6520 Analytics Consulting and Strategy 3 Credits
Prerequisite(s): DATA 6500.
With the rise of analytics for cutting-edge business innovation, the industry needs business leaders who can solve an organization's most important problems by asking and answering questions using data. These business consultants need to bridge both the data analytics and business fields. This class tries to provide a "real world" consulting experience through a project-centric experiential approach, in addition to case studies of analytics consulting and business problem solving using descriptive, predictive and prescriptive analytics. When possible, class projects will be client-driven using community partners. Students work in teams using analytics to answer the client's current and important business questions using data. The students will approach these as business analytics consultants by using effective project management to gathering requirements, using continuous client engagement to deepen understanding of the problem, suggesting ways in which to explore the question and its possible solutions through data, running different data models to approach the solution, working with clients to come up with effective analytics strategies, making business presentations based on findings, incorporating the inevitable changes that come with real world projects, and recommending strategic solutions based on their findings.

DATA 6530 Statistical Modeling for Business Intelligence 3 Credits
Prerequisite(s): DATA 5400 or placement exam.
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. Previously BUAN 6530.

DATA 6535 Advanced Sports Analytics 3 Credits
Sports analytics is transforming the way teams, leagues, players, coaches, referees, and fans perceive and appreciate their favorite pastimes and games, including major team sports such as baseball, basketball, football, soccer, cricket, and rugby, more individualized sports like tennis and golf, and brand-new innovations such as e-sports. In this course, students will gain experience in framing analytical questions in sports, discover and evaluate cutting-edge research and findings in sports analytics, develop hands-on skills in using and implementing sports analytics solutions, and learn how to communicate findings to a non-analytical audience in an impactful and actionable way. This course culminates in a scholarly sports analytics research paper.

DATA 6540 Business Intelligence 3 Credits
Prerequisite(s): DATA 6510.
Modernly, business intelligence has become far more interactive. This course provides an advanced application and overview of the new techniques for building interactive dashboards and tools now prevalent in this profession. Additionally, with data overload happening on every level, the importance of good data storytelling has soared. Using programming languages and environments such as Tableau and R, this course introduces students to the business intelligence profession and teaches the skills necessary to develop and deploy cloud-based interactive apps to assist in data and analytical storytelling, including insights into user interface design (UI) and user experience design (UX). The course concludes with a comprehensive project. Previously BUAN 6540.

DATA 6545 AI Systems for Business 3 Credits
Prerequisite(s): DATA 6505.
This course provides an advanced understanding of the principles and practices of data science and AI engineering, with a special focus on business applications. It covers the design, development, deployment, and maintenance of AI-powered systems across their full lifecycle. Emphasizing practical relevance, the course applies AI and data-driven tools to business analytics. Programming tutorials and case studies introduce topics such as AI lifecycle management, foundation models, and AutoML. Students are expected to actively participate in the course deliverables through independent assignments, lab work, and group projects. The course culminates with a final project in predictive analytics, as well as individual exercises in modeling and interpretation intending to be a component of an analytics capstone experience.

DATA 6550 Big Data Management and Data Ops 3 Credits
Prerequisite(s): DATA 6505 and DATA 6510.
This course introduces the fundamentals of Big Data management and its implementation in the public cloud. Topics include classic theories of data architecture, dimensional database design, data pipelines, and data governance, supplemented with the latest developments in the emerging field of DataOps. The theory is grounded with hands-on experience building databases and data pipelines with the Modern Data Stack.

DATA 6560 Sports Analytics 3 Credits
Sports analytics is transforming the way teams, leagues, players, coaches, referees, and fans perceive and appreciate their favorite pastimes and games, including major team sports such as baseball, basketball, football, soccer, cricket, and rugby, more individualized sports like tennis and golf, and brand-new innovations such as e-sports. In this course, students will gain experience in framing analytical questions in sports, discover and evaluate cutting-edge research and findings in sports analytics, develop hands-on skills in using and implementing sports analytics solutions, and learn how to communicate findings to a non-analytical audience in an impactful and actionable way. This course culminates in a scholarly sports analytics research paper.

DATA 6570 Generative AI Applications in Business 3 Credits
Artificial intelligence is becoming far more prevalent in the business and analytics worlds, yet many analytics professionals are excluded from participating in this new wave because they lack the strong coding foundations that are typically needed to implement this new technology from scratch. However, recent advances in AI/ML have coincided with desktop and cloud tools that can be deployed far more easily to generate new models without complicated coding requirements. This course will teach students how to discover, use, and daisy-chain such tools to solve real-world business problems in ways that would otherwise be impossible.

DATA 6575 Autonomous and Agentic AI for Business 3 Credits
Prerequisite(s): DATA 6545.
This course introduces students to autonomous AI applications including agents. Fundamental knowledge, such as the architectures of the deep neural networks, extraction of high-level features representing unstructured data, backpropagation, and stochastic gradient descent, are also reviewed. Additionally, students get hands-on experience building autonomous AI models. Topics covered in this class can include model building and optimization, image classification, natural language processing, generative models, and so forth. These topics cover the foundations and the latest developments in the field of autonomous AI.

DATA 6900 Contemporary Topics Seminar 3 Credits
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 of science with spreadsheets, e-procurement, executive information systems, and other socioeconomic factors in the use of information technology. Previously ISOM 6900.

DATA 6990 Independent Study 3 Credits
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. Previously ISOM 6990.

DATA 6999 Capstone: Business Analytics Applications 3 Credits
Prerequisite(s): 18 or more credits of DATA courses at the 5000-level or higher.
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. Previously BUAN 6999.

Ancient Mediterranean Studies (AMED)

AMED 1060 Ancient Greek Literature 3 Credits
Course Tags: English Literature Before 1800, Magis Core Exploration: Literature
This course is an introduction to the literature of ancient Greece, from roughly the 8th century B.C.E. to the 2nd century C.E., a span of almost 1,000 years. We will read works of various genres of Greek literature in translation, with authors and works including Homer, the lyric poets, Herodotus, Greek tragedians, Aristophanes, the Attic orators, Hellenistic poetry, and the Greek novel. The goal is to gain a basic understanding of the progression of Greek literature and how each work or genre relates to social and political conditions in Greece at the time, especially with regard to gender and interpersonal relationships. Cross-listed with ENGL 1060. Previously CLST 1060.

AMED 1070 Ancient Roman Literature 3 Credits
Course Tags: English Literature Before 1800, Magis Core Exploration: Literature
This course is an introduction to the literature of ancient Rome, a canon that took shape from roughly the 3rd century BCE to the 2nd century CE but covers events as early as 753 BCE. We will read and analyze works of various genres of Roman literature in translation, with authors and works including Plautus, Cicero, Catullus, Sulpicia, Propertius, Tibullus, Ovid, Augustus, Livy, Vergil, Lucretius, Seneca, Tacitus, and epigraphy. These authors and works necessarily span a breadth of disciplines (including but not limited to literary studies, gender and sexuality s t udies, history, art history and archaeology, performing arts, philosophy, and religious studies) which offer a multitude of theoretical approaches and models that we can use to explore our material in an interdisciplinary fashion. Our ultimate goal is to gain a basic understanding of the progression of Roman literature and how each work or genre relates to social and political conditions in Rome at the time. Cross-listed with ENGL 1070. Previously CLST 1070.

AMED 1080 Myth in Classical Literature 3 Credits
Course Tags: Magis Core Exploration: Literature
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 Magis Core exploration tier requirement in literature. Crosslisted with ENGL 1080. Previously CLST 1080.

AMED 1090 Greek Tragedy in English Translation 3 Credits
Course Tags: Magis Core Exploration: Literature
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 Magis Core exploration tier requirement in literature. Crosslisted with ENGL 1090. Previously CLST 1090.

AMED 1100 Greco-Roman Gender and Sexuality 3 Credits
Course Tags: English Literature Before 1800, Magis Core Exploration: Literature, Women, Gender, and Sexuality Studies: Gender Focused
In this course, we will analyze and engage with ancient Greco-Roman works of literature and art to reconstruct Greek and Roman conceptions of gender, sexuality, and interrelated topics: love, masculinity, femininity, homoeroticism, courtship, and marriage, among others. We will then use these investigations as a way to analyze our own modern conceptions of gender and sexuality and explore how issues like the definitions of sex and gender, the dynamics of socio-political power, the creation of community and relationships, and the boundaries of what is legal and moral are necessarily renegotiated from culture to culture and time period to time period. Cross-listed with ENGL 1100.

AMED 1114 Ancient Mediterranean Civilizations 3 Credits
Course Tags: History Before 1750
The ancient Mediterranean world was far more than Greco-Roman civilization. The ancient Mediterranean was home to one of history's first literate urbanized societies (pharaonic Egypt), ancient mariners reaching as far as Scandinavia and southern Africa (Carthage), a kingdom and people at the origins of ancient monotheism (Judea), the ancient society whose religious and architectural traditions shaped those of ancient Rome (Etruria), and many other rich and interesting cultures from the British Isles to the Horn of Africa. This course surveys the history of a selection of one or more of these societies to give students a sense of the complexity of the non-Greco-Roman ancient Mediterranean.

AMED 1115 Greek Civilization 3 Credits
Course Tags: Magis Core: Writing Across Curriculum
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 used to fulfill the Magis Core orientation tier requirement in History. Previously CLST 1115.

AMED 1116 Roman Civilization 3 Credits
Course Tags: Italian Studies: Italy Component, Magis Core: Writing Across Curriculum
Roman civilization spanned more than 1000 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 used to fulfill the Magis Core orientation tier requirement in History. Previously CLST 1116.

AMED 1270 Romantic Love in Greek and Roman Literature 3 Credits
Course Tags: English Literature Before 1800, Magis Core Exploration: Literature, Women, Gender, and Sexuality Studies: Gender Focused
The course of true love never did run smooth. From Homer's Penelopoe 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 Magis Core exploration tier requirement in literature. Crosslisted with ENGL 1270. Previously CLST 1270.

AMED 1900 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. Previously CLST 1900.

AMED 2005 Greco-Roman Literature 3 Credits
Course Tags: English Literature Before 1800, Magis Core Exploration: Literature
In this course, we will focus on one author from Greco-Roman antiquity and analyze and engage with their literary work(s) in English translation. Each successive offering of this shell course will focus on a different author or text, so students may take this course multiple times for credit. Topics will include the historical circumstances that formed the author and text; thematic considerations that offer us insights into the constructions of ancient society; the ways in which we might compare and contrast ancient beliefs about institutions like relationships, family, politics, war, and religion with those of the modern day; and the reception of ancient literature and narratives in later cultures. The study of any ancient author necessarily engages in methods and tools from a variety of associated disciplines, including literary studies, gender and sexuality studies, history, art history and archaeology, performing arts, philosophy, and religious studies; this interdisciplinary approach will enrich our understanding of the text. Cross-listed with ENGL 2005.

AMED 2221 Hellenistic World, 336-30 BCE 3 Credits
Course Tags: European History, History Before 1750, Non-Western History
Prerequisite(s): AMED 1115 or AMED 1116 or one 1000-level history class.
The course examines the Mediterranean world and the ancient near east from the late fourth to late first centuries BCE. 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. Crosslisted with HIST 2221. Previously CLST 2221.

AMED 2222 The Roman Revolution 3 Credits
Course Tags: European History, History Before 1750, Italian Studies: Italy-Focused
Prerequisite(s): CLST 1115 or CLST 1116 or one 1000-level history class.
This course presents a 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, 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. Crosslisted with HIST 2222. Previously CLST 2222.

AMED 2223 Roman World in Late Antiquity, 284-642 CE 3 Credits
Course Tags: European History, History Before 1750
Prerequisite(s): AMED 1115 or AMED 1116 or one 1000-level history class.
The course examines the Mediterranean world from the third to seventh centuries CE. 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. Crosslisted with HIST 2223. Previously CLST 2223.

AMED 2224 Byzantine World 3 Credits
Course Tags: European History
Prerequisite(s): AMED 1115 or AMED 1116 or one 1000-level history class.
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. Crosslisted with HIST 2224. Previously CLST 2224.

AMED 2225 Ancient Economic History 3 Credits
Course Tags: History Before 1750
This course explores the economic history of the Greco-Roman Mediterranean from the eighth century BCE to the seventh century CE. It focuses primarily on a close reading of the relevant primary sources – particularly literary, epigraphic and numismatic – providing insight into both the functioning of the ancient economy and Greco-Roman beliefs about and values concerning that economy. It also invites students to engage in the modern debate about the nature of the ancient economy, and asks them to consider whether that economy was a so-called "primitive" economy, or fundamentally like the modern economy, adjusting simply for scale. This course analyzes ancient evidence for Greco-Roman accounting techniques; debt mechanisms; price formation; coinage; travel and trade; markets and demand; and other aspects of ancient economic behavior.

AMED 3325 Athenian Democracy and Empire 3 Credits
Course Tags: European History, History Before 1750
Prerequisite(s): AMED 1115 or AMED1116 or one 1000-level history class.
This history seminar provides an in-depth exploration of classical Athens at the height of its power in the fifth century BCE. 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. Crosslisted with HIST 3325. Previously CLST 3325.

AMED 4999 Capstone Project in Classics 3 Credits
Prerequisite(s): 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. Enrollment by permission only. Previously CLST 4999.

Anthropology (ANTH)

ANTH 1100 Introduction to Four-Field Anthropology 3 Credits
Course Tags: Magis Core: Interdisciplinary
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.

ANTH 1110 Cultural Anthropology 3 Credits
Course Tags: Diversity, Equality, and Inclusion Minor Elective, Educational Studies Cognate
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.

ANTH 1115 Cultures of Africa 3 Credits
Course Tags: Black Studies Focus Course
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.

ANTH 1116 Introduction to Latinx-U.S. Immigration 3 Credits
Course Tags: International Studies Elective, Latinx, Latin American and Caribbean Studies Minor Elective
This course is an introduction to key themes in the study of Latin American/Latinx im/migration to the U.S. The course uses interdisciplinary resources drawn from anthropology, sociology, history, political science, and ethnic studies to address the history and demographics of Latinx im/migration to the U.S., the relationship between race/class/gender intersectionality and Latinx immigration, immigrant social and economic incorporation, and the impact of immigration policy on Latinx im/migrant experiences. Students will hear from guest speakers from local immigrant-serving organizations, follow emerging trends in Latinx-U.S. immigration, and develop the skills to separate fact from fiction in immigration-focused media and discourse.

ANTH 1120 Islamic Societies and Cultures 3 Credits
Course Tags: Islamic World Studies: Social Sciences
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.

ANTH 1125 Sex, Gender, and Sexual Orientation 3 Credits
Course Tags: Diversity, Equality, and Inclusion Minor Elective, International Studies Elective, 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.

ANTH 1200 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.

ANTH 1201 Introduction to Evolution of Human Health 3 Credits
Course Tags: Magis Core: Interdisciplinary
Have you ever wondered about the increasing prevalence of diseases like diabetes and cancer, the challenges of human birth, or the reasons behind aging? This course investigates our evolutionary history to explain current health trends. Students will learn how genetics, culture, environment, diet, physical activity, and historical interbreeding influence our well-being. We will also discuss hygiene, medicine, vaccines, and the future risks of antibiotic resistance and gene editing. This course concludes by emphasizing the crucial role of science and medicine in our journey toward better health.

ANTH 1210 Biomedical Anthropology 3 Credits
Course Tags: Health Studies: Science and Technology
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.

ANTH 1500 Anthropology of Happiness 3 Credits
Course Tags: Magis Core: Interdisciplinary
This course will explore the biological, behavioral, and cultural dimensions of happiness through the interdisciplinary lens of four-field anthropology. We begin with linguistics and archaeology, and we integrate philosophy, religious studies, visual arts, and poetry to define happiness and to explore the roots and evolution of happiness into the 21st century. In unit two, we shift to biological and cultural anthropology, along with neurology, chemistry, and psychology to examine the myriad ways humans pursue and experience happiness across the world.
We conclude with a final unit in which we apply our interdisciplinary knowledge to complete several short happiness projects.

ANTH 1510 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.

ANTH 1900 Special Topics (Shell) 3 Credits
Special topics in anthropology provide an opportunity for students and faculty to explore compelling themes that are not covered in the department's regular course rotation and curriculum.

ANTH 2010 Culture and Political Economy 3 Credits
Course Tags: Diversity, Equality, and Inclusion Minor Elective, Magis Core: Writing Across Curriculum
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. Crosslisted with INST 1052.

ANTH 2015 Refugees and Culture 3 Credits
Course Tags: Diversity, Equality, and Inclusion Minor Elective, Humanitarian Action Minor Context Course, International Studies Elective, Peace and Justice Studies
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.

ANTH 2016 Anthropology of Humanitarianism 3 Credits
Course Tags: Humanitarian Action Minor Context Course
Are cultural categories such as race, ethnicity, origin, gender, class, etc., influencing the way people reflect, design, and implement humanitarian actions in today's world? This course explores the relevance of anthropological perspectives for international humanitarian action. It will deal with key topics such as forced migration and methodological challenges of studying conflict and crisis, the discipline's historical engagement with emergencies and human suffering, and the contemporary legalization and financialization of the humanitarian field, and finally, the changing humanitarian-development-security nexus. The course will critically examine how recipients, practitioners, decision-makers, and donors interact with the discourses, institutions, and rules of humanitarianism.

ANTH 2025 Philosophy and Economic Anthropology 3 Credits
Course Tags: Diversity, Equality, and Inclusion Minor Elective, Philosophy Major: Major Philosopher
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.

ANTH 2100 Culture and Inequality 3 Credits
Course Tags: Diversity, Equality, and Inclusion Minor Elective, International Studies Elective, 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.

ANTH 3600 Anthropological Research Methods 3 Credits
Course Tags: Humanitarian Action Minor Skills/Method Course, International Studies Elective
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.

ANTH 3700 Grant Writing for the Social Sciences 3 Credits
Course Tags: Environmental Studies: Applied Professional Skills, Humanitarian Action Minor Skills/Method Course, International Studies Elective, Public Administration Grant and Proposal Writing
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.

ANTH 3710 Theory and Practice in Anthropology 3 Credits
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.'

ANTH 4990 Independent Study 1-3 Credits
Independent study 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.

Applied Ethics (AETH)

AETH 2262 Ethics and the Community 3 Credits
Course Tags: Peace and Justice Studies
Prerequisite(s): 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.

AETH 2265 Ethics in Education 3 Credits
Course Tags: Educational Studies Cognate
Prerequisite(s): 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.

AETH 2270 Ethical Dimensions of Global Violence 3 Credits
Prerequisite(s): 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.

AETH 2272 Ethics of Humanitarian Action 3 Credits
Course Tags: Public Administration Disaster and Emergency Management
Prerequisite(s): 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.

AETH 2276 Ethical Dimensions of Global Business Practices 3 Credits
Course Tags: Humanitarian Action Minor Context Course, Peace and Justice Studies
Prerequisite(s): 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.

AETH 2281 Ethics of Communications 3 Credits
Course Tags: Digital Journalism Ethics Component
Prerequisite(s): 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.

AETH 2283 Environmental Justice 3 Credits
Course Tags: Environmental Studies Elective, Environmental Studies Major Elective, Environmental Studies: Humanities, Peace and Justice Studies
Prerequisite(s): One course in Philosophy or Religious Studies.
This course examines challenges and controversies associated with the unequal distribution of environmental hazards across communities. Students will explore the social, industrial, and governmental forces that create inequitable burdens of environmental pollution as well as movements to reduce such burdens. It takes as axiomatic the premise that all people have a right to live in a clean environment free from hazardous pollution or contamination, and to the natural resources necessary to sustain health and livelihood. Question will be aimed at why, and through what social, political and economic processes, social justice issues arise in denying certain groups of people this basic right. Students will have the opportunity to report on alternative models and activists' movements aimed at creating a global sustainable future.

AETH 2284 Environmental Ethics 3 Credits
Course Tags: Environmental Studies Elective, Environmental Studies: Humanities, Peace and Justice Studies
Prerequisite(s): 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.

AETH 2285 Ethics of Health Care 3 Credits
Course Tags: Health Studies: Traditions, Delivery, and Ethics
Prerequisite(s): 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.

AETH 2287 Engineering Ethics 3 Credits
Prerequisite(s): 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.

AETH 2291 Business Ethics 3 Credits
Prerequisite(s): 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.

AETH 2293 Ethics of War and Peace 3 Credits
Course Tags: Humanitarian Action Minor Context Course, International Studies Elective, Peace and Justice Studies
Prerequisite(s): 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.

AETH 2295 Ethics in Law and Society 3 Credits
Prerequisite(s): 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).

AETH 2908 Special Topics 3 Credits
Prerequisite(s): sophomore, junior or senior standing.
AETH 2908 Special Topics (Law and Society): This seminar will explore the legal system in the United States and how it affects our lives individually and as a community. Through discussion of how the law intersects with topics such as race, gender, immigration, religion, technology, climate change, and crime, we will consider not only what the law is, but also what we think the law should be. Should the law reflect particular ethical standards, morals, or values? How should the law address changes in society? Who gets to decide? Students will have opportunities throughout the semester to expand their development of the legal skills of reasoning, making effective arguments, and critical thinking. Of particular interest to pre-law students, guest speakers will also offer insights into the realities of law school and practicing law in a variety of specialties.

AETH 3391 Seminar in Business Law, Regulation, and Ethics 3 Credits
Course Tags: Management: General Elective
Prerequisite(s): AETH 2291, BUSN 3211, two additional courses in law or applied ethics.
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. Crosslisted with BUSN 3391.

AETH 3990 Independent Study 3 Credits
Students undertake an advanced program of course, field, and library work arranged with the instructor. Enrollment by permission only.

Arabic (ARBC)

ARBC 1110 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.

ARBC 1111 Elementary Modern Standard Arabic II 3 Credits
Prerequisite(s): ARBC 1110.
A continuation of ARBC 1110, 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.

ARBC 2210 Intermediate Modern Standard Arabic I 3 Credits
Prerequisite(s): ARBC 1111.
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.

ARBC 2211 Intermediate Modern Standard Arabic II 3 Credits
Prerequisite(s): ARBC 2210.
A continuation of ARBC 2210, 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.

ARBC 3990 Independent Study 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. Enrollment by permission only.

Art History (AHST)

AHST 1001 Exploring Art History: Technology and Art 3 Credits
Course Tags: Educational Studies Cognate, Graphic Design: Art History
This course introduces students to art history as a discipline through the theme of technology by examining a series of important artworks from historic cultures within a global context. These works will serve as entry points into varied artistic traditions whose study will develop students' analytic skills. The use of modern technologies from imaging and digital reconstruction to chemical analysis and artificial intelligence will be examined to understand how analyses and interpretations are formed and changed over time.

AHST 1002 Exploring Art History: Migration and Art: Raids, Trade, Pilgrimage 3 Credits
Course Tags: Graphic Design: Art History
This course introduces students to the discipline of art history through the theme of the movement of artworks and the materials with which they are made across physical and political boundaries. As people in Europe, Africa, and Asia used land and sea routes to wage or flee war, exchange goods, experience the holy, and seek new opportunities, they brought with them materials, artworks, and ideas. Students will examine a series of important artworks, their historical and cultural contexts, and related works that show evidence of the interconnectedness of people and cultures. Artworks studied may vary, depending on expertise of instructor.

AHST 1003 Exploring Art History: Life, Death, and the Afterlife in Art 3 Credits
Course Tags: Graphic Design: Art History
This course will introduce students to the discipline of art history through the study of important works of funerary art from across the globe.
We will consider how objects from tombs and other funerary contexts construct and negotiate the relationship between life and the afterlife in diverse cultures and time periods. We will study the funerary monuments of rulers as well as objects created for the burial rites of common people, and works of art used by the living to depict and prepare for an afterlife. We will also discuss contemporary debates around these monuments.

AHST 1004 Exploring Art History: Art, Politics, and Propaganda 3 Credits
Course Tags: Graphic Design: Art History
This course introduces students to the discipline of art history through the theme of propagandizing visual imagery conceived and executed from the earliest world cultures to the present day. Students explore a series of important artworks from a range of historical periods to better understand their aesthetic, political, and cultural contexts. Focusing on masterpieces across media will develop critical visual literacy skills. Historic examples of political art will be compared to imagery from the present day to better understand the embedded nature of propaganda in human societies.

AHST 1005 Exploring Art History: Sex, Sacrilege, Scandals: From Caves to Culture Wars 3 Credits
Course Tags: Graphic Design: Art History
Overviewing the history of art from its prehistoric roots through the present, students will examine a series of paradigm monuments which sparked controversy and scandal in their societal contexts. Focusing on paradigm examples, students will develop critical visual literacy skills. During the semester, students will expand their capacities for critically enhanced looking, analyzing, and translating ideas. Students will learn to deconstruct visual rhetoric and unpack the prevailing conditions for art censorship sparked by sexual, religious, or political controversies.

AHST 1006 Exploring Art History: Destruction, Plunder, and Preservation 3 Credits
Course Tags: Graphic Design: Art History
This course introduces students to the discipline of art history through the themes of art's destruction, looting, and preservation across world cultures. Through important artworks studied within their cultural and historical contexts, we will explore topics including the looting and plunder of objects for political and economic purposes, the willful destruction of material culture as a means of cultural erasure, and evolving ideas of ownership and cultural heritage as a common human right. We will consider ethical implications and obligations, and current cultural heritage debates over contested objects and monuments from around the world.

AHST 1101 Ancient American Art and Archaeology 3 Credits
Course Tags: Graphic Design: Art History, Latinx, Latin American and Caribbean Studies Minor Elective
This course surveys the art and architecture of the ancient (Precolumbian) Americas, focusing on a range of cultures from the Olmec and Maya to the Mexica (Aztec) and Inca Empires, who faced invading Europeans five hundred years ago. Iterations of this course may focus on North American visual cultures as well. Participants will encounter varying visual styles and expressive media, while addressing a range of topics including aesthetics, history, mythology, politics, and urbanism. The course will include visits to regional museums and explore issues relating to the display, interpretation, and ethics of ancient American artifacts today.

AHST 1102 Art of East Asia 3 Credits
Course Tags: Asian Studies Elective, Diversity, Equality, and Inclusion Minor Elective, Graphic Design: Art History, International Studies Elective
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.

AHST 1103 Art of Africa, the Caribbean, and the Americas 3 Credits
Course Tags: Black Studies Component Course, Diversity, Equality, and Inclusion Minor Elective, Graphic Design: Art History, International Studies Elective, Latinx, Latin American and Caribbean Studies Minor Elective
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.

AHST 1104 Art of Asia 3 Credits
Course Tags: Asian Studies Elective, Diversity, Equality, and Inclusion Minor Elective, Graphic Design: Art History, International Studies Elective
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. Areas of focus 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 Fairfield University Art Museum, Yale University, and in New York City.

AHST 1105 History of Architecture 3 Credits
Course Tags: Graphic Design: Art History
This introductory course surveys the major periods and key monuments in the history of architecture 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.

AHST 1109 Jewish Art: Moses to Modernity 3 Credits
Course Tags: Graphic Design: Art History, Judaic Studies Minor
The earliest known written description of the Jewish people is a visual record on an ancient victory monument. Dated from the 13th century BCE, a carved stele dedicated to Pharaoh Merneptah presents a hieroglyphic relief inauspiciously boasting: "Israel is laid waste; his seed is no more." Tracing 4000 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?

AHST 1110 Myth in Art 3 Credits
This course surveys the meaning, form, and cultural function of mythology, as it is expressed in art and material culture. While we may be more familiar with mythology as a set of written stories, gods, heroes, and monsters were a part of everyday life in many cultures, adorning temples, public spaces, and everyday objects. Previously AHST 2210.

AHST 1111 Greek Art and Archaelogy: Athens to Alexandria 3 Credits
Course Tags: Graphic Design: Art History
This survey explores the artistic and architectural achievements of ancient Greece from the time of Homer to the collapse of the Hellenistic world. The course considers the formation of the Greek city-state and major panhellenic sanctuaries like Olympia in the Geometric and Archaic Periods, the rise of Athens and the artistic achievements of the High Classical Period, and cosmopolitan kingdoms ushered in by Alexander the Great. The course will consist of lectures and structured discussions of seminal scholarly texts, as well as direct engagement with ancient art and reproductions at Fairfield and world-class museums in our region.

AHST 1112 Roman Art and Archaeology: Colosseum to Catacombs 3 Credits
Course Tags: Graphic Design: Art History, Italian Course Taught in English, Italian Studies: Elective, Italian Studies: Italy-Focused
In this course we will examine art of the Roman Republic and Empire. 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 as expressions of power; the architecture and decoration of houses to show status and culture. These themes will also be related to the art of other places and times, including that of our own society. The course emphasizes objects in area museums and may include trips to world-class museums in our region.

AHST 1113 Art and Archaeology of Ancient Egypt: Images for Eternity 3 Credits
Course Tags: Graphic Design: Art History, International Studies Elective
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. The course emphasizes objects in area museums and may include trips to world-class museums in our region.

AHST 1120 Medieval Art: Catacombs to Cathedrals 3 Credits
Course Tags: Catholic Studies: Non-Religious Studies, French Course Taught in English, Graphic Design: Art History, Islamic World Studies: Humanities
This introduction to medieval art and architecture in Europe and the Middle East, from its Roman, Jewish, Early Christian, and Islamic 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, patterns in medieval design, and the impact of imperial patronage on art. The class will use material from the Fairfield University Art Museum's loan collection from the Metropolitan Museum of Art and the Cloisters, and may include a trip to world-class museums in our region.

AHST 1121X Celtic and Early Irish Art 3 Credits
Course Tags: Catholic Studies: Non-Religious Studies, Graphic Design: Art History, Irish Studies Elective, Magis Core: Interdisciplinary
Corequisite(s): ENGL 1420X.
This course traces Celtic art from its sources and history on the European continent (1200 BCE to the first century CE) 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 BCE 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. This course is linked with ENGL 1420X and fulfills the requirements for the interdisciplinary signature element within the Magis Core.

AHST 1130 Early Renaissance Art in Italy 3 Credits
Course Tags: Catholic Studies: Non-Religious Studies, Graphic Design: Art History, Italian Course Taught in English, Italian Studies: Elective, Italian Studies: Italy-Focused
In this 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 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 new clothing fashions. Course includes visits to world-renowned area museums allowing students to study first-hand prime examples of Florentine art.

AHST 1131 High Renaissance and Mannerism in Italy 3 Credits
Course Tags: Catholic Studies: Non-Religious Studies, Graphic Design: Art History, Italian Studies: Elective
Leonardo, Raphael, and Michelangelo were all praised by the 16th-century artist and writer Giorgio Vasari for raising the visual arts to a level unrivaled since ancient Greece and Rome. This course, which spans roughly 1480-1570, explores this narrative of artistic progress, and what happened to Italian art after it reached "perfection" during the period we call the High Renaissance. Areas of focus include the rebirth of classical antiquity, the concept of artistic style, the role of class and gender in the production and consumption of visual art, and new technologies for producing visual art.

AHST 1132 Baroque Art and Architecture in Rome 3 Credits
Course Tags: Catholic Studies: Non-Religious Studies, Italian Studies: Italy-Focused
Baroque art began in Rome, and may of its iconic moments remain today. This class will spend two weeks in Rome to experience these works of painting, sculpture, architecture, and decorative arts in their original – and spectacular! – contexts, rather than isolated in museums or on screens. A key goal of Baroque art (created between the end of the 16th and beginning of the 18th centuries) was to elicit a range of physical and emotional responses in its viewers, from piety and awe to disorientation and desire. Through our site visits, we will attempt to recapture some of the embodied experience intended by these creators.

AHST 1152 Modern Art 3 Credits
Course Tags: French Course Taught in English, Graphic Design: Art History
In this course, students will 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. The 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.

AHST 1164 American Art and Media Culture 3 Credits
Course Tags: American Studies: Gateway, American Studies: Visual and Performing Arts, Graphic Design: Art History
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?

AHST 1165 African-American Art 3 Credits
Course Tags: American Studies: Gateway, American Studies: Visual and Performing Arts, Black Studies Focus Course, Diversity, Equality, and Inclusion Minor Elective, Graphic Design: Art History
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 1980s, and the Los Angeles race riots of the 1990s 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.

AHST 1172 History of Photography 3 Credits
Course Tags: Graphic Design: Art History
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.

AHST 1191 Art and Mythologies of Nazi Germany, Fascist Italy, Bolshevik Russia: Comparative Systems & Outcomes 3 Credits
Course Tags: German Course Taught in English, German Major or Minor Course, Graphic Design: Art History, Italian Course Taught in English, Italian Studies: Elective, Italian Studies: Italy Component, Judaic Studies Minor, Russian Studies Minor: VPA
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.

AHST 1192 History, Theory, and Practice of Museums 3 Credits
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.

AHST 1193 Inside Museums and Galleries: Taste, Place, Public Space 3 Credits
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.

AHST 2208 Building Belief: Art and Ritual in the Greco-Roman Sanctuary 3 Credits
Course Tags: Graphic Design: Art History
Prerequisite(s): One 1000 level AHST, AMED, or RLST course.
This seminar introduces students to the advanced study of the classical sanctuary, contexts where ancient ritual, myth, and architecture came together to express the varied identities of the Greco-Roman past and present. The course will introduce students to seminal texts in the study of Greco-Roman religion, the evolution of Greek and Roman sacred architecture, and the varied forms of religious expression that fall outside the worship of the traditional classical pantheon. Students will develop a research project over the course of the semester and develop skills used by field archaeologists.

AHST 2209 Historic Plaster Cast Collection at Fairfield University 3 Credits
Prerequisite(s): One 1000 level Art History course.
This seminar introduces students to the study of classical and medieval sculpture through the lens of plaster cast collections in Europe and the U.S. including Fairfield's growing collection. Students will develop a deep understanding of the great works of famed Greek sculptors, the complex history of Roman copying, and how the rediscovery and replication of these works influenced tastes from the Renaissance to the modern day. Students will research casts in the Fairfield collection, learn directly from curators and conservators, and visit other cast collections including the Slater Museum, the Institute for Classical Architecture, and the Metropolitan Museum of Art.

AHST 2221 Arts of Ireland and the British Isles, 500-1000 3 Credits
Course Tags: Catholic Studies: Non-Religious Studies, Irish Studies Elective
Prerequisite(s): One 1000-level art history course.
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.

AHST 2222 Byzantine Art 3 Credits
Course Tags: Catholic Studies: Non-Religious Studies
Prerequisite(s): One 1000-level art history course.
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.

AHST 2250 Fashion Forward: A History of Fashionable Dress in Global Context 3 Credits
Course Tags: Magis Core: Interdisciplinary, Women, Gender, and Sexuality Studies: Gender Focused
This course examines how clothes are a tool of identity and power, by exploring fashions of both Europe and the Global South. The history of fashion is the history of humanity. What we choose to wear, how we style our hair, and how we decorate our bodies, has been a factor of our daily lives for millennia. Fashion is never "just clothes." Our clothes tell ourselves and the world who we are, where we see ourselves in our community, and how our fellow humans view us. Through readings, discussions, research and writings, students will discover the incredible power of dress. Crosslisted with THTR 2250.

AHST 2292 Museums, Art, Ethics, and the Law 3 Credits
Prerequisite(s): One 1000-level art history course.
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.

AHST 2296 Museum Exhibition Seminar 3 Credits
Prerequisite(s): One Art History course or permission of the instructor.
This seminar offers students the opportunity for object-based learning and direct experience of museum practice surrounding the curation, display, and interpretation of works of art for the public.

AHST 2900 Special Topics (Shell) 3 Credits
Prerequisite(s): One 1000-level art history course.
Students conduct an in-depth study of a specific subject in the history of art.

AHST 3980 Internship 1-3 Credits
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 the Fairfield University Art Museum or pursue placement in local or New York City arts institutions. Internships require permission from the Art History program's internship coordinator before registration.

AHST 3990 Independent Study 1-3 Credits
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.

AHST 3999 Senior Capstone Seminar 3 Credits
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. 3 credits.

AHST 4999 Senior Capstone Seminar 3 Credits
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.

Arts and Sciences

ARSC 2980 Liberal Arts Internship Elective 1-3 Credits
Students will engage in a work experience designed to be relevant to the student's academic pursuits, personal development, and professional preparation. The internship provides the opportunity to gain experience in workplace settings and to translate classroom learning into practice. The internship is a substantive career development experience. At the end of the internship, students will be able to reflect on their personal and professional growth and make a more informed decision on their career path. Qualified students may enroll by instructor permission. The internship must be approved in conjunction with the instructor and the CAS Dean's Office.

ARSC 3980 Liberal Arts Internship Elective 1-3 Credits
Students will engage in a work experience designed to be relevant to the student's academic pursuits, personal development, and professional preparation. The internship provides the opportunity to gain experience in workplace settings and to translate classroom learning into practice. The internship is a substantive career development experience. At the end of the internship, students will be able to reflect on their personal and professional growth and make a more informed decision on their career path. Qualified students may enroll by instructor permission. The internship must be approved in conjunction with the instructor and the CAS Dean's Office.

Asian Studies (ASST)

ASST 3990 Independent Study 1-3 Credits
Students undertake an individualized program of study in consultation with a director from the Asian Studies faculty.

ASST 4999 Asian Studies Seminar 3 Credits
Course Tags: Asian Studies Elective
Prerequisite(s): Junior standing.
This seminar examines selected topics concerning Asia. The course is taught in conjunction with another 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 a research emphasis. Students registered for this course must complete a research project, to include 4000-level research, in addition to the regular research requirements of the conjoined course, and a 25-50 page term paper in substitution for some portion of the conjoined course requirements, as determined by the instructor.

Biology (BIOL)

BIOL 1015 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.

BIOL 1016 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.

BIOL 1018 Human Biology: Form and Function 3 Credits
Course Tags: Educational Studies Cognate, 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.

BIOL 1020 Bioinspiration: Innovation Inspired by Nature 3 Credits
Course Tags: Magis Core: Interdisciplinary
This course introduces topics in Biology which have inspired developments in technology to the non-science major. Special emphasis is placed on ethical and social issues related to the knowledge and application of these technologies. Topics include biomimicry, antibiotics, gene editing, synthetic biology, and more. Through the semester, students will work together to design a bioengineering solution to an existing problem in nature. Note: This course counts as a natural science interdisciplinary core but does not satisfy requirements for the biology major or minor.

BIOL 1030 Animal Diversity: The Amazing World of Vertebrates 3 Credits
What's the difference between an alligator and a crocodile? How do sea turtles find their way back to their birthplace after 20 years at sea? Why do some frogs break their own bones? This course is designed for students interested in learning more about the incredible and sometimes weird world of vertebrate biology. Students will learn about the diversity, evolution, behavior, and current conservation issues of vertebrates. Students will gain a broad understanding of the process of science and an appreciation of the diversity of vertebrate life through lectures supplemented by live animal observations and examinations of preserved specimens.

BIOL 1070 Science, Technology, and Society 3 Credits
Course Tags: 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.

BIOL 1071 Identity and the Human Genome 3 Credits
Course Tags: Black Studies Component Course, Diversity, Equality, and Inclusion Minor Elective, Educational Studies Cognate, Health Studies: Science and Technology, 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.

BIOL 1073 Contemporary Nutrition: Food for Thought 3 Credits
Course Tags: 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.

BIOL 1074 Biology of Food 3 Credits
Course Tags: Environmental Studies Elective, Environmental Studies Major Elective, Environmental Studies: Natural Science, Magis Core: Interdisciplinary
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.

BIOL 1075 Ecology and Society 3 Credits
Course Tags: Educational Studies Cognate, Environmental Studies Elective, Environmental Studies Major Elective, Environmental Studies: Natural Science, Peace and Justice 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). Note: This course counts as a natural science core but does not satisfy requirements for the biology major or minor.

BIOL 1076 Environmental Science 3 Credits
Course Tags: Environmental Studies Elective, Environmental Studies Major Elective, Environmental Studies: Natural Science, Magis Core: Interdisciplinary, Peace and Justice Studies
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. Crosslisted with CHEM 1076.

BIOL 1078 Introduction to Marine Science 3 Credits
Course Tags: Environmental Studies Elective, Environmental Studies Major Elective, Environmental Studies: Natural Science, Magis Core: Interdisciplinary
This course introduces the non-science major 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.

BIOL 1088 Biomedical Science and Society 3 Credits
Course Tags: Health Studies: Science and Technology, Magis Core: Interdisciplinary
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.

BIOL 1095 Philosophy and Biology of Evolutionary Theory 3 Credits
Prerequisite(s): PHIL 1101.
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. Crosslisted with PHIL 2216.

BIOL 1096 God and Modern Biology 3 Credits
Course Tags: Catholic Studies: Non-Religious Studies
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.

BIOL 1107 Human Anatomy and Physiology I 4 Credits
Course Tags: Biology: Physiology/Morphology, Health Studies: Science and Technology
Corequisite(s): BIOL 1107L.
Homeostasis is the major theme of this 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. A strong chemistry background is recommended. Open to nursing majors only.

BIOL 1107L Human Anatomy and Physiology I Lab 0 Credits
Fee: $130 Biology Lab Fee
Corequisite(s): BIOL 1107.
Laboratory work closely follows the BIOL 1107 lecture and includes microscopic anatomy (histology), use of virtual cadaver (Anatomage Table), anatomical models, human skeletons, and dissections for study of gross anatomy, and physiology experiments including muscle recruitment measurements, reflex tests and cranial nerve tests.

BIOL 1108 Human Anatomy and Physiology II 4 Credits
Course Tags: Biology: Physiology/Morphology, Health Studies: Science and Technology
Corequisite(s): BIOL 1108L.
Prerequisite(s): BIOL 1107.
Homeostasis is the major theme of this course, with form and function covered together each semester. This course continues with the endocrine, cardiovascular, lymphatic, respiratory, urinary, digestive, and reproductive systems. A strong chemistry background is recommended. Open to nursing majors only.

BIOL 1108L Human Anatomy and Physiology II Lab 0 Credits
Fee: $130 Biology Lab Fee
Corequisite(s): BIOL 1108.
Laboratory work closely follows the BIOL 1108 lecture and includes microscopic anatomy (histology), use of virtual cadaver (Anatomage Table), anatomical models, and dissections for study of gross anatomy, and physiology experiments including blood pressure measurements, blood typing, lung function, and urinalysis.

BIOL 1151 Elements of Microbiology 4 Credits
Prerequisite(s): BIOL 1107, CHEM 1184.
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. Open to nursing majors only.

BIOL 1151L Elements of Microbiology Lab 0 Credits
Course Tags: Magis Core: Writing in the Discipline
Fee: $130 Biology Lab Fee

BIOL 1171 General Biology I 4 Credits
Course Tags: Health Studies: Science and Technology
Corequisite(s): BIOL 1171L, BIOL 1171P.
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.

BIOL 1171L General Biology I Lab 0 Credits
Course Tags: Magis Core: Writing in the Discipline
Fee: $130 Biology Lab Fee

BIOL 1171P General Biology I PLG 0 Credits

BIOL 1171S General Biology I 4 Credits
Course Tags: Health Studies: Science and Technology, Magis Core: Writing in the Discipline
Corequisite(s): BIOL 1171L.
This introductory course for biology majors, offered during summer sessions, 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.

BIOL 1172 General Biology II 4 Credits
Course Tags: Health Studies: Science and Technology
Corequisite(s): BIOL 1172L, BIOL 1172P.
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.

BIOL 1172L General Biology II Lab 0 Credits
Fee: $130 Biology Lab Fee

BIOL 1172P General Biology II PLG 0 Credits

BIOL 1172S General Biology II 4 Credits
Course Tags: Health Studies: Science and Technology
Corequisite(s): BIOL 1172L.
This introductory course for biology majors, offered during the summer, 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.

BIOL 1173 General Biology III 4 Credits
Corequisite(s): BIOL 1173L.
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.

BIOL 1173L General Biology III Lab 0 Credits
Course Tags: Magis Core: Writing in the Discipline
Fee: $130 Biology Lab Fee

BIOL 2218 Vertebrate Zoology 3 Credits
Course Tags: Biology: Ecology/Evolution/Environment, Environmental Studies Elective, Environmental Studies Major Elective, Environmental Studies: Natural Science
Prerequisite(s): BIOL 1171, BIOL 1172, BIOL 1173.
Fish, frogs, flamingos, 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.

BIOL 2218L Vertebrate Zoology Lab 1 Credit
Course Tags: Biology: Ecology/Evolution/Environment
Fee: $130 Biology Lab Fee
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.

BIOL 2251 Human Nutrition 3 Credits
Prerequisite(s): BIOL 1107, BIOL 1108; or BIOL 1171, BIOL 1172, BIOL 1173.
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.

BIOL 2260 Ecology 4 Credits
Course Tags: Biology: Ecology/Evolution/Environment, Environmental Studies Elective, Environmental Studies Major Elective, Environmental Studies: Natural Science
Corequisite(s): BIOL 2260L.
Prerequisite(s): BIOL 1171, BIOL 1172, BIOL 1173, CHEM 1172.
This course is designed as an overview of the science of ecology: the study of interactions between organisms and their environment. The 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.

BIOL 2260L Ecology Lab 0 Credits
Fee: $130 Biology Lab Fee

BIOL 2261 Genetics 4 Credits
Course Tags: Biology: Molecular/Cell/Developmental
Corequisite(s): BIOL 2261L.
Prerequisite(s): BIOL 1171, BIOL 1172, BIOL 1173.
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.

BIOL 2261L Genetics Lab 0 Credits
Course Tags: Magis Core: Writing in the Discipline
Fee: $130 Biology Lab Fee

BIOL 2262 Human Physiology 4 Credits
Course Tags: Biology: Physiology/Morphology, Magis Core: Writing in the Discipline
Corequisite(s): BIOL 2262L.
Prerequisite(s): BIOL 1171, BIOL 1172; BIOL 1173; PSYC 1610 or PSYC 1710; CHEM 2271.
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.

BIOL 2262L Human Physiology Lab 0 Credits
Course Tags: Magis Core: Writing in the Discipline
Fee: $130 Biology Lab Fee

BIOL 2263 Human Anatomy 4 Credits
Course Tags: Biology: Physiology/Morphology
This course provides an in-depth examination of the structural organization of the human body and relationships with physiology. We will explore anatomy not just as a catalog of parts, but as a dynamic set of systems shaped by function, development, and evolutionary history. The class will cover all major organ systems from both macroscopic and microscopic perspectives, emphasizing how anatomical form supports physiological function and how structural variation impacts clinical outcomes. Our approach will be regionally and systemically integrative. Students will be encouraged to connect what we learn about anatomical structure with biomechanical, developmental, and physiological processes. Registration priority will be given to Health and Human Biology students. Instructor permission required.

BIOL 2263L Human Anatomy Laboratory 0 Credits
Course Tags: Biology: Physiology/Morphology
Fee: $130 Biology Lab Fee
Laboratory work follows that of BIOL 2263 lecture and includes anatomical models, virtual cadavers (Anatomage Table), human skeletons, dissections and prosections to strengthen understanding of human anatomy through a regional approach.

BIOL 2264 Tropical Marine Biology 3 Credits
This course will introduce students to a variety of tropical marine ecosystems surrounding South Bimini, Bahamas. Students will receive in-class instruction regarding each ecosystem and the field methods used to study and quantify species in each location. Students will participate in field trips to each ecosystem and use the field methods. Ecosystems include, but are not limited to, seagrass meadows, mangroves, coral reef, open ocean. An open water snorkel with sharks or a dolphin dive is possible. Students must be able to swim and to get in and out of boats without assistance; snorkeling experience is preferred. Maximum 14 students.

BIOL 2951 Biology Teaching Practicum I 1 Credit
Prerequisite(s): Successful completion of the assigned course and laboratory.
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.

BIOL 2952 Biology Teaching Practicum II 1 Credit
Prerequisite(s): Successful completion of the assigned course and laboratory.
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.

BIOL 2953 Biology Teaching Practicum III 1 Credit
Prerequisite(s): Successful completion of the assigned course and laboratory.
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.

BIOL 2954 Biology Teaching Practicum IV 1 Credit
Prerequisite(s): Successful completion of the assigned course and laboratory.
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.

BIOL 2955 Biology Teaching Practicum V 1 Credit
Prerequisite(s): Successful completion of the assigned course and laboratory.
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.

BIOL 2956 Biology Teaching Practicum VI 1 Credit
Prerequisite(s): Successful completion of the assigned course and laboratory.
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.

BIOL 3312 Fundamentals of Neurobiology 3 Credits
Prerequisite(s): BIOL 1171, 1172, 1173 or PSYC 1610; CHEM 1171, 1172.
Course Description: This course provides an introduction to the fundamental concepts in neurobiology. This is an upper-level course designed to provide an overview of the structure and function of the human brain. Topics include structural and functional properties of neurons, neuronal communication, brain control of movements, feeding behavior, pain, anger, aggression, learning and memory, cognitive disorders and psychiatric illness including anxiety disorders, depression and schizophrenia. By the course's conclusion, students will have acquired an integrated understanding of the fundamental principles in neurobiology and its intersections with various health science domains.

BIOL 3314 Endocrinology 3 Credits
Course Tags: Biology: Physiology/Morphology
Prerequisite(s): BIOL 1171, BIOL 1172, BIOL 1173, CHEM 2272.
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.

BIOL 3315 Anatomy: Form and Function 3 Credits
Course Tags: Biology: Physiology/Morphology
Prerequisite(s): BIOL 1171, BIOL 1172, CHEM 2271.
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.

BIOL 3319 Zoology Field Experience 3 Credits
Course Tags: Biology: Ecology/Evolution/Environment, Environmental Studies Elective, Environmental Studies Major Elective, Environmental Studies: Natural Science, Latinx, Latin American and Caribbean Studies Minor Elective

BIOL 3319L Zoology Field Experience Lab 3 Credits
Course Tags: Environmental Studies Major Elective, Environmental Studies: Natural Science
Fee: $130 Biology Lab Fee
Prerequisite(s): BIOL 2218 or BIOL 3365.
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 rain forest 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.

BIOL 3321 Animal Behavior 4 Credits
Course Tags: Biology: Ecology/Evolution/Environment
Prerequisite(s): BIOL 1171, 1172, and 1173.
This course investigates the behavioral patterns and processes demonstrated by animals. Students will examine feeding, reproduction, defense, social organization, communication, and spatial behavior using examples from a variety of animal taxa. Investigation of behavior will include their physical and biochemical basis, ecological function, evolutionary relevance, and development over the lifespan. Topics include Laboratory includes fieldwork and other activities to provide experience in methods and challenges of investigating behavior in natural settings.

BIOL 3321L Animal Behavior Lab 0 Credits
Course Tags: Biology: Ecology/Evolution/Environment
Prerequisite(s): BIOL 1171, 1172, 1173; Co-requisites: BIOL 3321.
This lab is designed to familiarize you with the breadth and scope of research methods and data types in the field of animal behavior. It complements the lecture portion of the course, although the two will not always be synchronized. Lab and field exercises are meant to provide practice with concepts and techniques for studying animal behavior in an experimental setting. The lab will also help you to develop your ability to think logically, ask meaningful questions, solve problems, and detect and analyze patterns in the world around you.

BIOL 3323L Biochemistry Lab 1 Credit
Fee: $130 Biology Lab Fee
Corequisite(s): BIOL 3324 or BIOL 3325.
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. Crosslisted with CHEM 3323L.

BIOL 3324 Biochemistry I 3 Credits
Course Tags: Biology: Physiology/Morphology
Prerequisite(s): CHEM 2272.
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. Crosslisted with CHEM 3324.

BIOL 3327 Cell Biology 4 Credits
Course Tags: Biology: Molecular/Cell/Developmental
Corequisite(s): BIOL 3327L.
Prerequisite(s): BIOL 1171, BIOL 1172, BIOL 1173, CHEM 2271.
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.

BIOL 3327L Cell Biology Lab 0 Credits
Fee: $130 Biology Lab Fee

BIOL 3330 Nutrient Metabolism 3 Credits
Prerequisite(s): BIOL 1171, BIOL 1172, BIOL 1173, CHEM 2272.
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 BIOL 3325 has been taken previously.

BIOL 3342 Developmental Biology 4 Credits
Course Tags: Biology: Molecular/Cell/Developmental
Corequisite(s): BIOL 3342L.
Prerequisite(s): BIOL 1171, BIOL 1172, BIOL 1173.
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.

BIOL 3342L Developmental Biology Lab 0 Credits
Fee: $130 Biology Lab Fee

BIOL 3352 Fundamentals of Microbiology 4 Credits
Course Tags: Biology: Molecular/Cell/Developmental
Corequisite(s): BIOL 3352L.
Prerequisite(s): BIOL 1171, BIOL 1172, BIOL 1173, one course from the Molecular Block, CHEM 2272.
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.

BIOL 3352L Fundamentals of Microbiology Lab 0 Credits
Fee: $130 Biology Lab Fee

BIOL 3354 Molecular Biology 3 Credits
Course Tags: Biology: Molecular/Cell/Developmental
Prerequisite(s): BIOL 1171, BIOL 1172, CHEM 2272.
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.

BIOL 3356 Immunology 3 Credits
Course Tags: Biology: Physiology/Morphology
Prerequisite(s): BIOL 1171, BIOL 1172, CHEM 2272.
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.

BIOL 3357 General Virology 3 Credits
Course Tags: Biology: Molecular/Cell/Developmental
Prerequisite(s): BIOL 1171, BIOL 1172, CHEM 2272, on course from Molecular Block.
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.

BIOL 3362 Marine Invertebrate Zoology 4 Credits
Course Tags: Biology: Ecology/Evolution/Environment
Corequisite(s): BIOL 3362L.
Prerequisite(s): BIOL 1171, BIOL 1172, BIOL 1173.
Students explore the broad diversity of structures and functions possessed by marine invertebrate animals. Special attention is given to the evolutionary relationships that unite invertebrate taxa, how each animal phylum accomplishes basic life processes, and the mechanisms that have led to variation in body plans. Students engage in comparative anatomy and investigate the reproductive patterns of ecologically important invertebrates. Students conduct hands-on manipulation, dissection, and illustration of marine invertebrates in the laboratory component, with several opportunities to interact with living specimens from local ecosystems and beyond. Multiple field trips provide opportunities to identify and observe animals in their natural habitats.

BIOL 3362L Marine Invertebrate Zoology Lab 0 Credits
Fee: $130 Biology Lab Fee

BIOL 3364 Freshwater Ecology 4 Credits
Course Tags: Biology: Ecology/Evolution/Environment, Environmental Studies Elective, Environmental Studies Major Elective, Environmental Studies: Natural Science
Corequisite(s): BIOL 3364L.
Prerequisite(s): BIOL 1171, BIOL 1172, BIOL 1173, CHEM 1172.
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 a semester-long research project using long-term data from Lake Lillinonah.

BIOL 3364L Freshwater Ecology Lab 0 Credits
Fee: $130 Biology Lab Fee

BIOL 3365 Evolutionary Biology 4 Credits
Course Tags: Biology: Ecology/Evolution/Environment
Corequisite(s): BIOL 3365L.
Prerequisite(s): BIOL 1171, BIOL 1172, BIOL 1173.
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.

BIOL 3365L Evolutionary Biology Lab 0 Credits
Fee: $130 Biology Lab Fee

BIOL 3366 Ornithology 4 Credits
Course Tags: Biology: Ecology/Evolution/Environment, Environmental Studies Elective, Environmental Studies Major Elective, Environmental Studies: Natural Science
Corequisite(s): BIOL 3366L.
Prerequisite(s): BIOL 1171, BIOL 1172, BIOL 1173.
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. The laboratory focuses on unique adaptations of birds and means of identification of birds found in Connecticut through weekly field trips.

BIOL 3366L Ornithology Lab 0 Credits
Fee: $130 Biology Lab Fee

BIOL 3372 Environmental Toxicology 4 Credits
Course Tags: Biology: Ecology/Evolution/Environment, Environmental Studies Elective, Environmental Studies Major Elective, Environmental Studies: Natural Science
Corequisite(s): BIOL 3372L.
Prerequisite(s): BIOL 1171, BIOL 1172, BIOL 1173, CHEM 2272.
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).

BIOL 3372L Environmental Toxicology Lab 0 Credits
Fee: $130 Biology Lab Fee

BIOL 4971 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.

BIOL 4972 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.

BIOL 4973 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.

BIOL 4974 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.

BIOL 4975 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.

BIOL 4976 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.

BIOL 4981 Internship 1-3 Credits
Prerequisite(s): Junior standing.
Internships are available to biology majors in good academic standing, 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.

BIOL 4982 Internship 1-3 Credits
Prerequisite(s): Junior standing.
Internships are available to biology majors in good academic standing, 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.

BIOL 4990 Independent Study 1-3 Credits
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.

BIOL 4999 Capstone Seminar (Shell) 3 Credits
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.

BIOL 4999A Senior Capstone Seminar: Biology of Cancer 3 Credits
Course Tags: Biology Major Capstone Course
Prerequisite(s): BIOL 1171, BIOL 1172, BIOL 1173, one course from the Molecular 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.

BIOL 4999B Senior Capstone Seminar: Molecular Mechanisms of Human Disease 3 Credits
Course Tags: Biology Major Capstone Course
Prerequisite(s): BIOL 1171, BIOL 1172, BIOL 1173, one course from the Molecular 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.

BIOL 4999C Senior Capstone Seminar: Bacterial Pathogenesis 3 Credits
Course Tags: Biology Major Capstone Course
Prerequisite(s): BIOL 1171, BIOL 1172, BIOL 1173, one course from the Molecular 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.

BIOL 4999D Senior Capstone Seminar: Nutritional Epigenetics 3 Credits
Course Tags: Biology Major Capstone Course
Prerequisite(s): BIOL 1171, BIOL 1172, BIOL 1173, one course from the Molecular or Physiology Block, senior standing.
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.

BIOL 4999E Senior Capstone Seminar: Reproductive Tactics 3 Credits
Course Tags: Biology Major Capstone Course
Prerequisite(s): BIOL 1171, BIOL 1172, BIOL 1173, one course from the Physiology Block, senior standing.
This seminar approaches the process of reproduction - or lack thereof - from a wide range of possible angles and for a wide range of possible organisms….depending on the semester. Topics may include how animals and humans have evolved creative mechanisms, physiological and behavioral, to maximize their reproductive success. Often, how anthropogenic activities affect reproductive patterns other animals drive the discussion of reproductive variability, and often delve into how human activities and values directly affect our own reproductive behaviors.
Course format: A reading extensive course. Students will read from a source text or a “general press” science book for foundational ideas. Then, students will each find scientific research papers from the primary literature related to the chosen source readings and present their paper to the entire class for discussion and analysis of scientific content.
A culminating multi-media presentation – shared for the entire class, represents the final assessment of learning expectations for the class.

BIOL 4999F Senior Capstone Seminar: Coral Reef Ecology 3 Credits
Course Tags: Biology Major Capstone Course, Environmental Studies Elective, Environmental Studies Major Elective
Prerequisite(s): BIOL 1171, BIOL 1172, BIOL 1173, one course from the Ecology Block, senior standing.
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.

BIOL 4999G Senior Capstone Seminar: Ecology of the North Atlantic Coast 3 Credits
Course Tags: Biology Major Capstone Course
Prerequisite(s): BIOL 1171, BIOL 1172, BIOL 1173, one course from the Ecology Block, senior standing.
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.

BIOL 4999H Senior Capstone Seminar: Principles of Aquaculture 3 Credits
Course Tags: Biology Major Capstone Course
Prerequisite(s): BIOL 1171, BIOL 1172, BIOL 1173, 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.

BIOL 4999I Senior Capstone Seminar: Topics in Evolutionary Biology 3 Credits
Course Tags: Biology Major Capstone Course
Prerequisite(s): BIOL 1171, BIOL 1172, BIOL 1173, 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.

BIOL 4999K Senior Capstone Seminar: Ichthyology 3 Credits
Course Tags: Biology Major Capstone Course, Magis Core: Writing in the Discipline
Prerequisite(s): BIOL 1171, BIOL 1172, BIOL 1173, 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.

BIOL 4999M Senior Capstone Seminar: Conservation Biology 3 Credits
Course Tags: Biology Major Capstone Course, Environmental Studies Elective, Environmental Studies Major Elective, Environmental Studies: Natural Science
Prerequisite(s): BIOL 1171, BIOL 1172, BIOL 1173, one course from the Ecology Block, senior standing.
Conservation biology is focused on scientific investigation of the maintenance, loss, and restoration of biodiversity. It relies on biological principles (from disciplines such as population genetics, biogeography, and community ecology) applied in the context of human-modified environments. In this seminar, students will read and discuss the primary literature in this field and gain an appreciation of the linkages of conservation problems across biological scales (genes to ecosystems) and geographical scales (local to global). Students will also prepare a review of research on a current conservation issue, and will practice with conservation planning and management tools.

BIOL 4999N Host-associated Microbiomes 3 Credits
Course Tags: Biology Major Capstone Course
Prerequisite(s): BIOL 1171, BIOL 1172, BIOL 1173 and at least one 2000 or 3000-level BIOL course in the Ecology, Evolution and Environmental Science Block.
This seminar covers an emerging field of research on the microbial communities that associate with the bodies of larger organisms such as plants and animals. Topics include the methods used to study microbiomes, microbial ecology, symbiosis, and the evolutionary considerations of host-associated microbiomes. Emphasis will be placed on the role that microbiomes play in animal processes (e.g., immunity, development, nutrition, behavior, and disease), including humans. Students read assigned scientific articles throughout the course and are expected to participate robustly in student-led discussions. Students also explore the literature independently and read articles in support of a semester-long, thesis-driven writing project.

BIOL 5365 Evolutionary Biology 3 Credits
Evolution is the theme that unites all fields of biology. The broad objective of this course is to introduce students to the major concepts essential for developing a fundamental understanding the processes of evolution at both the morphological and molecular level. Students enrolled in the graduate version of evolutionary biology will be additionally challenged through assignments and exams which will involve a higher level of concept integration, journal readings, and independent work. Undergraduate equivalent: BIOL 3365.

BIOL BIOL 4999O Becoming Human: The Evolution of Our Form 3 Credits
Course Tags: Biology Major Capstone Course
Prerequisite(s):BIOL 1171, BIOL 1172, BIOL 1173, One course from the Biology: Physiology/Morphology Block.
What makes the human body uniquely human? Which evolutionary transformations forged our distinctive anatomy? This capstone seminar explores human biology through an integrative, evolutionary lens. We will investigate how natural selection, development, and constraint have shaped the human form across deep time. In this course, you will learn about the evidence gathered from comparative anatomy, paleontology, developmental biology, and genetics to examine major transformations in the human lineage through lectures, student-led discussions, and a student-led project based on the primary literature.

Biomedical Engineering (BIEG)

BIEG 1001 Introduction to Biomedical Engineering 3 Credits
This course utilizes hands-on learning and projects to teach the basic engineering skills important for Biomedical Engineers. Biomedical Engineering is a very interdisciplinary field and students will learn applications of mathematics, statistics, physics, and electronics to solve biomedical problems. Students will work on team projects and will be guided through the engineering design process. In addition, students will practice professional skills such as technical writing and presentation. A variety of career paths within Biomedical Engineering will be covered as well as the roles of Biomedical Engineers in the global society and ethics within the profession.

BIEG 3201 Biomechanics 3 Credits
Prerequisite(s): MATH 1141, PHYS 1171.
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.

BIEG 3301 Biomedical Instrumentation 3 Credits
Course Tags: Health Studies: Science and Technology
Prerequisite(s): ELEG 2213.
This course presents instrumentation and techniques used in acquisition, processing, and presentation of biomedical signals: transducers, sensors, biosensors, and measurement of physical parameters and electrophysiological signals. Physiology relevant for instrumentation labs will be covered.

BIEG 3301L Biomedical Instrumentation Lab 1 Credit

BIEG 3331 Biomedical Signal Processing 3 Credits
Prerequisite(s): CPSC 1131 or SWEG 5407; MATH 1142.
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. Graduate equivalent: BIEG 5331, ECEG 5331.

BIEG 3335 Clinical Engineering 3 Credits
Prerequisite(s): Junior or Senior Standing.
Biomedical engineering is defined by the application of engineering design in service of human health. To solve problems in healthcare, it is crucial to understand the clinical environment within which biomedical engineers develop solutions. This course will provide students with the opportunity to work with faculty and students in the Egan School Simulation Lab to gain an understanding of modern clinical care and work collaboratively on solutions to existing problems in healthcare. Students will have an opportunity to use existing medical devices and gain an understanding of their fundamental operating principles. Students will gain an understanding of the societal underpinnings contributing to existing disparities in healthcare outcomes and how previous technological development has exacerbated to these disparities. Graduate Equivalent: BIEG 5335.

BIEG 4309 Biosensors 3 Credits
Prerequisite(s): CHEM 1171, ELEG 2213.
This course will provide an overview of biosensors, including their use in pharmaceutical research, diagnostic testing, and policing the environment. Topics include the fabrication, characterization, testing, and simulation of biosensors. The phenomenon of transducers, biosensor structure, sensor performance, and simulations utilizing molecular simulation software will also be covered. Graduate Equivalents: BIEG 5309, ECEG 5309

BIEG 4311 Biomaterials 3 Credits
Prerequisite(s): CHEM 1171 and any of the following: BIOL 1107, BIOL 1108, BIOL 1171, or BIOL 1172, or BIOL 1173.
This course will cover the introductory level of understanding on the different types of biomaterials used in biomedical industry, their design and synthesis. Examples include implants, stents, catheters, smart polymer gels, bone grafts, and tissue scaffolds. Modern biology in biomedical engineering such as but not limited to protein adsorption, immuno-isolation, and regenerative medicine will be covered. Ethical issues in biomedical engineering will also be discussed. Current innovative research on nano-biotechnology that extends to 3D bio-matrix, advanced diagnostics, dental composites, sealants, and adhesives. Graduate equivalents: BIEG 5311, ECEG 5311.

BIEG 4313 Quantitative Biomedical Engineering 3 Credits
Prerequisite(s): ENGR 2145, BIEG 3301.
In this course, students will learn quantitative physiological function of the human body and will apply this knowledge to build computational models of individual organ systems. Anatomy, physiology, and pathophysiology of the human body will be covered. Equations governing organ function for different organ systems will be studied and implemented in computational models. Graduate Equivalent: BIEG 5313.

BIEG 4314 Introduction to Molecular Modeling 3 Credits
Prerequisite(s): CHEM 1171, PHYS 1171.
This course will cover methodological and practical aspects of the application of system analysis and computational tools to biological and biomedical problems. It will cover computational modeling of biological macromolecules such as proteins, DNA, and synthetic self-assembling materials such as polymers, crystals, colloids, and amphiphiles. The course provides the resources to use Visual Molecular Dynamics (VMD) and Nanoscale Molecular Dynamics (NAMD) to solve computational problems related to protein interactions in case of diseases and protein folding. Graduate equivalent: BIEG 5314, ECEG 5314.

BIEG 4316 Soft Tissue Mechanics 3 Credits
Prerequisite(s): Junior or Senior Standing.
This course will introduce students to the application of continuum mechanics to soft tissues that undergo large deformations. Calculations of stress and strain in biological tissues, such as blood vessels, will be covered. Constitutive laws for soft tissues will be introduced. Hyperelastic and viscoelastic materials will be studied. Solid mechanics techniques will be used to build models of predictive growth and remodeling of soft tissues. Graduate Equivalent: BIEG 5316.

BIEG 4318 Orthopedic Device Design 3 Credits
Prerequisite(s): Junior or Senior Standing.
This course introduces students to the principles and practices of orthopedic device design within the broader context of musculoskeletal health and society. Topics include an overview of musculoskeletal physiology, materials selection and biocompatibility, tissue integration, regulatory pathways, and manufacturing methods for orthopedic implants and instruments. Students will explore the economic, demographic, and public health drivers of orthopedic medicine, as well as emerging innovations such as regenerative medicine, biologics, and smart implants. Through case studies and design exercises, students will learn to identify unmet clinical needs and develop solutions in orthopedics that balance mechanical performance, biological compatibility, and regulatory requirements. Graduate Equivalent: BIEG 5318.

BIEG 4319 Advanced Experimental Design in Biomedical Engineering 3 Credits
How do biomedical engineers know which medical problems are worth solving? How do they know that their inventions will work? How do they know that these inventions will be safe across a diverse population? This course uses a "flipped classroom" approach to answer these questions. It will build student skill in experimental design across the diverse disciplines of biomedical engineering with a focus on statistical analysis. Students will spend the first half of the semester reviewing/analyzing classic literature across biomedical engineering and performing classic experiments within our field. Students will spend the second half of the semester designing and performing their own custom-designed experiment that will be presented at Fairfield's Innovative Research Symposium"

BIEG 4326 Biotransport 3 Credits
Prerequisite(s): Junior Standing.
Biomedical Engineers develop new solutions to challenges in medicine by applying engineering principles to the intersection of physical, chemical, and biological phenomena. In this course, students will learn about transport phenomena in biological systems. Momentum and mass transport in biomedical engineering will be covered, including applications to artificial organs, drug delivery, and tissue engineering. Fluid biomechanics and thermodynamics will be introduced. Students will learn and apply pharmacokinetic modeling. Graduate Equivalent: BIEG 5326.

BIEG 4328 Musculoskeletal Biomechanics 3 Credits
This course is intended for advanced undergraduates and graduate students in biomedical engineering and other engineering disciplines. A background in mechanics, physiology, and programming is recommended. Topics will include muscle architecture and force generation, joint mechanics, modeling and simulation of movement, energetics and efficiency, and the role of neuromuscular control in coordination. Emphasis will be placed on quantitative analysis and computational approaches to studying human movement, preparing students to engage with current research and commercial applications in biomechanics, rehabilitation, sports science, and prosthetics development. Junior or Senior standing. Graduate Equivalent: BIEG 5328.

BIEG 4332 Biomedical Imaging 3 Credits
Course Tags: Health Studies: Science and Technology
Prerequisite(s): BIEG 3331 or CPEG 3331.
The fundamentals and applications of medical imaging techniques will be presented, including x-ray and computed tomography, nuclear imaging, ultrasound, and MRI. Image processing and analysis techniques will be introduced through suitable programming exercises. Graduate equivalent: BIEG 5332, ECEG 5332.

BIEG 4333 Biomedical Visualization 3 Credits
Prerequisite(s): CPSC 1131.
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. Graduate equivalent: ECEG 5333.

BIEG 4350 Medical Device Design 3 Credits
Course Tags: Health Studies: Science and Technology
Prerequisite(s): Junior standing.
This project-based course focuses on important stages of the medical device product lifecycle including: identifying unmet clinical and global health needs, the FDA approval process, material selection, biocompatibility, ethical considerations, intellectual property, and post-market surveillance of similar products. Students will generate project ideas and design a medical device. Graduate Equivalent: BIEG 5350.

BIEG 4370 Cardiac Mechanics 3 Credits
Prerequisite(s): Junior or Senior standing.
In this course, students will learn quantitative physiological function of the heart and vascular system. Anatomy, physiology, and pathophysiology of the heart will be covered. Constitutive laws for heart muscle will be introduced. Solid and fluid biomechanics and modeling techniques will be studied. Students will gain experience with finite element modeling of the heart. Graduate equivalent: BIEG 5370.

BIEG 4375 Bioelectronics 3 Credits
Prerequisite(s): CHEM 1171 and CHEM 1171L, ELEG 2213 and ELEG 2213L.
Bioelectronics have emerged as an exciting research area due to the integration of molecular biology with electronics to create fundamental devices. This course is intended for senior and graduate level engineering students. It will introduce fundamentals of bioelectronics through chemical, biochemical and biophysical concepts from the engineering perspective. It will further apply these concepts to the areas of electron transport through biological macromolecules, microfluidics, electrochemical techniques, DNA and neuron-based electronics, biomaterials and semiconductor-based bioelectronics. Graduate Equivalent: ECEG 5375, BIEG 5375

BIEG 4387 Instrumental Analysis in Biomedical Engineering 3 Credits
Prerequisite(s): CHEM 1171 and CHEM 1171L or BIOL 1171 and 1171L or PHYS 1171 and PHYS 1171L.
This course will give an overview on several important analytical tools for characterizing the nanomaterials that are functionally engineered towards biomedical applications. Quantification of mechanical, electrical, electronic and biological properties of the nanomaterials such as carbon nanotubes, metal nanoparticles, quantum dots, nanowires, polymeric nanoparticles and biomedical nanomaterials will be discussed. Fundamental principles of the associated instruments and the evaluation of the physical, chemical and microscopy methods for materials in nano-regime will be highlighted. Modern material science depends on the use of a set of analytical methods that are used normally in specialized laboratories. This course will help the students get familiar with the basics of such specialized methods, their range of applicability and reliability, especially when the materials under test are in sub-100nm dimensions. Graduate Equivalent: BIEG 5387, ECEG 5387.

BIEG 4403 Advanced Biomechanics 3 Credits
Prerequisite(s): BIEG 3201.
This course introduces the applications of continuum mechanics to the understanding of various biological tissue properties and biological fluid flow. The structure, function and mechanical properties of bone, muscle, blood vessels and blood flow will be examined. Conservation laws and constitutive equations for solid, fluid, and intermediate biomaterials will be covered. Critical analysis of current research in the field of biomechanics is also emphasized. Graduate Equivalent: BIEG 5403.

BIEG 5260 Robots 3 Credits
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. Students will understand degrees of freedom of a robotic arm and their safety parameters through demonstration and use of Fanuc Robot. Service learning is an integral part of the course. All students will participate in mentoring of youth to put into practice the principles learned in class, and gain communication skills through community interaction. Particularly they will participate in mentoring to build small robots to accomplish different feats, for example obstacle avoidance by a mobile robot.

BIEG 5301 Feedback Control System 3 Credits
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 hands-on lab (hardware-based) exploration of PID control systems. Undergraduate equivalent: ENGR 4301.

BIEG 5309 Biosensors 3 Credits
This course will provide an overview of biosensors, including their use in pharmaceutical research, diagnostic testing, and policing the environment. Topics include the fabrication, characterization, testing, and simulation of biosensors. The phenomenon of transducers, biosensor structure, sensor performance, and simulations utilizing molecular simulation software will also be covered. Graduate students who intend to pursue a MS in BME can take this course.

BIEG 5311 Biomaterials 3 Credits
This course will cover the introductory level of understanding on the different types of biomaterials used in biomedical industry, their design and synthesis. Examples include implants, stents, catheters, smart polymer gels, bone grafts, and tissue scaffolds. Modern biology in biomedical engineering such as but not limited to protein adsorption, immuno-isolation, and regenerative medicine will be covered. Ethical issues in biomedical engineering will also be discussed. Current innovative research on nano-biotechnology that extends to 3D bio-matrix, advanced diagnostics, dental composites, sealants, and adhesives.

BIEG 5313 Quantitative Biomedical Engineering 3 Credits
In this course, students will learn quantitative physiological function of the human body and will apply this knowledge to build computational models of individual organ systems. Anatomy, physiology, and pathophysiology of the human body will be covered. Equations governing organ function for different organ systems will be studied and implemented in computational models.

BIEG 5314 Introduction to Molecular Modeling 3 Credits
This course will cover methodological and practical aspects of the application of system analysis and computational tools to biological and biomedical problems. It will cover computational modeling of biological macromolecules such as proteins, DNA, and synthetic self-assembling materials such as polymers, crystals, colloids, and amphiphiles. The course provides the resources to use Visual Molecular Dynamics (VMD) and Nanoscale Molecular Dynamics (NAMD) to solve computational problems related to protein interactions in case of diseases and protein folding.

BIEG 5316 Soft Tissue Mechanics 3 Credits
This course will introduce students to the application of continuum mechanics to soft tissues that undergo large deformations. Calculations of stress and strain in biological tissues, such as blood vessels, will be covered. Constitutive laws for soft tissues will be introduced. Hyperelastic and viscoelastic materials will be studied. Solid mechanics techniques will be used to build models of predictive growth and remodeling of soft tissues.

BIEG 5318 Orthopedic Device Design 3 Credits
This course introduces students to the principles and practices of orthopedic device design within the broader context of musculoskeletal health and society. Topics include an overview of musculoskeletal physiology, materials selection and biocompatibility, tissue integration, regulatory pathways, and manufacturing methods for orthopedic implants and instruments. Students will explore the economic, demographic, and public health drivers of orthopedic medicine, as well as emerging innovations such as regenerative medicine, biologics, and smart implants. Through case studies and design exercises, students will learn to identify unmet clinical needs and develop solutions in orthopedics that balance mechanical performance, biological compatibility, and regulatory requirements.

BIEG 5319 Advanced Experimental Design in Biomedical Engineering 3 Credits
How do biomedical engineers know which medical problems are worth solving? How do they know that their inventions will work? How do they know that these inventions will be safe across a diverse population? This course uses a "flipped classroom" approach to answer these questions. It will build student skill in experimental design across the diverse disciplines of biomedical engineering with a focus on statistical analysis. Students will spend the first half of the semester reviewing/analyzing classic literature across biomedical engineering and performing classic experiments within our field. Students will spend the second half of the semester designing and performing their own custom-designed experiment that will be presented at Fairfield's Innovative Research Symposium.

BIEG 5326 Biotransport 3 Credits
Biomedical Engineers develop new solutions to challenges in medicine by applying engineering principles to the intersection of physical, chemical, and biological phenomena. In this course, students will learn about transport phenomena in biological systems. Momentum and mass transport in biomedical engineering will be covered, including applications to artificial organs, drug delivery, and tissue engineering. Fluid biomechanics and thermodynamics will be introduced. Students will learn and apply pharmacokinetic modeling.

BIEG 5328 Musculoskeletal Biomechanics 3 Credits
This course is intended for advanced undergraduates and graduate students in biomedical engineering and other engineering disciplines. A background in mechanics, physiology, and programming is recommended. Topics will include muscle architecture and force generation, joint mechanics, modeling and simulation of movement, energetics and efficiency, and the role of neuromuscular control in coordination. Emphasis will be placed on quantitative analysis and computational approaches to studying human movement, preparing students to engage with current research and commercial applications in biomechanics, rehabilitation, sports science, and prosthetics development.

BIEG 5331 Biomedical Signal Processing 3 Credits
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. Undergraduate equivalents: BIEG 3331, CPEG 3331.

BIEG 5332 Biomedical Imaging 3 Credits
The fundamentals and applications of medical imaging techniques will be presented, including x-ray and computed tomography, nuclear imaging, ultrasound, and MRI. Image processing and analysis techniques will be introduced through suitable programming exercises. Undergraduate equivalent: BIEG 4332, ECEG 5332.

BIEG 5333 Biomedical Visualization 3 Credits
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. Undergraduate equivalent: BIEG 4333.

BIEG 5335 Clinical Engineering 3 Credits
Biomedical engineering is defined by the application of engineering design in service of human health. To solve problems in healthcare, it is crucial to understand the clinical environment within which biomedical engineers develop solutions. This course will provide students with the opportunity to work with faculty and students in the Egan School Simulation Lab to gain an understanding of modern clinical care and work collaboratively on solutions to existing problems in healthcare. Students will have an opportunity to use existing medical devices and gain an understanding of their fundamental operating principles. Students will gain an understanding of the societal underpinnings contributing to existing disparities in healthcare outcomes and how previous technological development has exacerbated to these disparities.

BIEG 5350 Medical Device Design 3 Credits
This project-based course focuses on important stages of the medical device product lifecycle including: identifying unmet clinical and global health needs, the FDA approval process, material selection, biocompatibility, ethical considerations, intellectual property, and post-market surveillance of similar products. Students will generate project ideas and design a medical device. Students are required to conduct an independent research, write a research report, create a poster and present the research in annual research symposium at the university or elsewhere. Undergraduate Equivalent BIEG 4350.

BIEG 5370 Cardiac Mechanics 3 Credits
Prerequisite(s): Graduate Standing.
In this course, students will learn quantitative physiological function of the heart and vascular system. Anatomy, physiology, and pathophysiology of the heart will be covered. Constitutive laws for heart muscle will be introduced. Solid and fluid biomechanics and modeling techniques will be studied. Students will gain experience with finite element modeling of the heart. Undergraduate equivalent: BIEG 4370.

BIEG 5375 Bioelectronics 3 Credits
Bioelectronics have emerged as an exciting research area due to the integration of molecular biology with electronics to create fundamental devices. This course is intended for senior and graduate level engineering students. It will introduce fundamentals of bioelectronics through chemical, biochemical and biophysical concepts from the engineering perspective. It will further apply these concepts to the areas of electron transport through biological macromolecules, microfluidics, electrochemical techniques, DNA and neuron-based electronics, biomaterials and semiconductor-based bioelectronics.

BIEG 5387 Instrumental Analysis in Biomedical Engineering 3 Credits
This course will give an overview on several important analytical tools for characterizing the nanomaterials that are functionally engineered towards biomedical applications. Quantification of mechanical, electrical, electronic and biological properties of the nanomaterials such as carbon nanotubes, metal nanoparticles, quantum dots, nanowires, polymeric nanoparticles and biomedical nanomaterials will be discussed. Fundamental principles of the associated instruments and the evaluation of the physical, chemical and microscopy methods for materials in nano-regime will be highlighted. Modern material science depends on the use of a set of analytical methods that are used normally in specialized laboratories. This course will help the students get familiar with the basics of such specialized methods, their range of applicability and reliability, especially when the materials under test are in sub-100nm dimensions.

BIEG 5403 Advanced Biomechanics 3 Credits
This course introduces the applications of continuum mechanics to the understanding of various biological tissue properties and biological fluid flow. The structure, function and mechanical properties of bone, muscle, blood vessels and blood flow will be examined. Conservation laws and constitutive equations for solid, fluid, and intermediate biomaterials will be covered. Critical analysis of current research in the field of biomechanics is also emphasized.

BIEG 5407 Computational Genomics 3 Credits
This course will provide an overview of computational genomics. Students will obtain skill in analyzing genomic data and sequencing experiments. The focus will be on achieving proficiency in data management and processing based on popular file formats in genomic biology.

BIEG 5415 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. Cross-listed with MEEG 5415, ECEG 5415.

BIEG 5990 Independent Study 1-3 Credits
Graduate students pursue special topics, projects, and/or readings in selected areas. Students must meet with the instructor to discuss the proposed topic of study. Enrollment by departmental approval only.

BIEG 6971 Thesis I 3 Credits
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.

BIEG 6972 Thesis II 3 Credits
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.

Black Studies (BLST)

BLST 1101 Black Lives Matter 3 Credits
Course Tags: American Studies Theme Course, Black Studies Focus Course, Magis Core: Interdisciplinary, Peace and Justice Studies
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.

BLST 4990 Independent Study 1-3 Credits
Course Tags: Black Studies Focus 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 (BUSN)

BUSN 1101 Messaging and Persuasion: Effective Business Communication 3 Credits
Course Tags: Magis Core: Writing in the Discipline
This course is designed to immerse students in the use of various platforms through which to communicate. At times they will make a face-to-face presentation, at other times they will need to craft a convincing and accurate e-mail, and at still other times they will be distilling their analysis of an extensive data set into a clear and comprehensive research report or business document. We will be called upon to deliver difficult messages to peers and superiors, to the media, or to customers. All of these activities require communication skills and also the ability to choose and manage appropriate media platforms. The goal of this course is to provide students with the written, verbal, and non-verbal skills necessary to be effective communicators.

BUSN 1500 Career Readiness Seminar 0 Credits
This seminar prepares students for experiential learning opportunities where they can apply the knowledge amassed within the classroom and obtain real-world experiences. Students will gain an understanding of the process required to search for a professional position. Students will create resources and practice demonstrating their marketability to potential employers. The students will be taught how to leverage their professional network and the importance of ongoing professional development.

BUSN 2500 Dolan Experiential Learning 0 Credits
The Dolan Experiential Learning Program is a zero-credit required component of the undergraduate business core designed to ensure that every Dolan student engages in meaningful, real-world learning prior to graduation. In alignment with Fairfield University's Jesuit mission of educating the whole person, the program integrates academic learning with professional experience and personal development. Students complete two approved experiential learning activities—such as internships, client-based projects, study abroad, leadership roles, or competitions—providing opportunities to apply classroom knowledge in practical settings and develop essential professional skills. Each experience is paired with a structured reflection that encourages students to connect their experiences to academic concepts, career goals, and personal growth. The program strengthens career readiness and helps students effectively articulate their skills and experiences to employers.

BUSN 2980 Internship 1 Credit
Prerequisite(s): Sophomore standing.
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 be matriculated in the Dolan School of Business and have a GPA of 2.5 or higher. Enrollment by permission only.

BUSN 3211 Legal Environment of Business 3 Credits
Prerequisite(s): 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.

BUSN 3215 Sports Law and Ethics 3 Credits
This course will present a range of legal and ethical issues presented in the sports industry. In the context of this industry, students will apply basic principles of antitrust law, labor law, intellectual property law, constitutional law, administrative law, anti-discrimination law, and contract and tort law. The course will also examine the regulation of agent representation of athletes, the regulation of sports franchises, and sports leagues, and the regulation of intercollegiate sports, with special attention to the NCAA.

BUSN 3220 Environmental Law and Policy 3 Credits
Course Tags: Environmental Studies Elective, Environmental Studies Major Elective, Environmental Studies: Social Science, Management: General Elective, Public Administration Environment Policy
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.

BUSN 3391 Seminar in Business Ethics 3 Credits
Course Tags: Management: General Elective
Prerequisite(s): AETH 2291, BUSN 3211, two additional courses in law or applied ethics.
This course is an interdisciplinary study of these two aspects of the business environment. 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. Crosslisted with AETH 3391.

BUSN 3980 Internship 3 Credits
Prerequisite(s): Junior standing.
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.

BUSN 4320 Employment Law and Discrimination in the Workplace 3 Credits
Course Tags: Management: General Elective
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.

BUSN 6980 Business Immersion Practicum 1-3 Credits
This course builds on the in-class lessons covered during the student's graduate studies by providing the student with an opportunity to apply their 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 open only by permission of the Director of Graduate Programs or designee.

BUSN 7000 Becoming Scholarly Practitioners 1.5 Credits
In this course, the students are introduced to the philosophy and process of a doctorate program. Topics that are addressed are: What is scientific inquiry? What are the processes and elements of scientific inquiry? - Why is scientific inquiry important for business practices? What is a good theory? How to write theory? What are the goals of a doctorate program? What does 'scholarly research' mean? What are the processes of a doctorate program? What is original research?

BUSN 7050 DBA Degree and Careers 1.5 Credits
This course is designed to help DBA students to understand better their career choices and/or broaden their perspective of career possibilities, with the executive DBA degree. Different disciplinary perspectives from Accounting, Analytics, Economics, Finance, Management, and Marketing will be shared. Alumni of DBA programs from Dolan School and other business schools will be invited as guest speakers to share their experiences and reflections. Students will be evaluated based on their participation, a career portfolio and sharing of their own career aspirations after completing the DBA degree.

BUSN 7060 University Teaching based on Ignatian Pedagogy 1.5 Credits
This course introduces students to the art of university teaching and Ignatian pedagogy (IP) which encourages education of the whole student (cura personalis). Students will learn the Ignatian Pedagogy Paradigm (IPP), which speaks to the continuous nature of the cycle of learning. Faculty and alumni, who are experts in this area, will be invited as guest speakers to share their experiences and reflections. Students will be evaluated based on their participation in classes, sharing of reflection on university teaching, and a course design project.

BUSN 7080 Knowledge Dissemination: How to write, submit and publish scholarly papers 1.5 Credits
Since the Executive DBA program is designed to produce practicing scholars, this course aims to develop student's understanding of the importance of disseminating knowledge and ways to do so. These include academic and trade publications, digital media platforms, and other effective means. Experts familiar with the process of scholarly writing and different publication avenues will be invited to share their expertise and experiences. Students will be evaluated based on their participation in class and a written assignment detailing their plan of disseminating their dissertation work.

BUSN 7100 Understanding the Firm: Theories and Practices 3 Credits
Understanding the theoretical framework of how firm operates, is essential to identify new areas of study for the modern organization. In order to maintain effectiveness and competitiveness in the fast-paced national, global and local environment, a firm needs to continuously examine in external and internal environment and evolve through dynamic capabilities of adapting to the changes. This course examines the dynamics of complex, global organizations through the lenses of foundational theory of firms. These include strategic management; theory of organizations and industries; and behavior of individuals, groups, and organizations in global settings.

BUSN 7200 Contemporary Topics in Business 3 Credits
This course brings together contemporary research topics across the major functional areas of business. Topics include leadership, ethics and social justice, innovation, entrepreneurship, international business, artificial intelligence, technology, human capital. The course focus on how to approach these issues in new ways and discover research opportunities. Students will learn to build on this foundational research by formulating new research questions that address emerging issues and challenges for the modern organization.

BUSN 7500 Quantitative Research Methods I 3 Credits
Quantitative research methods fall into two categories: exploration and testing. This first course in quantitative research methods focuses on the tools, techniques, and approaches of exploratory data analysis for the purpose of discovering patterns and conjecturing new explanations. Students will learn the fundamentals of data collection, cleaning, and management, visualization, and exploration. Topics include sampling considerations, missing data, data integrity, normalization, correlation analysis, principle component analysis, clustering techniques, standard charts and graphs, advanced visualization techniques to display as much of the data as possible, and data interpretation. Students will have guided reading of both classic and state-of-the-art articles. Cases will be used to illustrate these techniques and datasets will be used by students to in their hands-on projects to learn these techniques including: normality violations, multi-collinearity, and missing data.

BUSN 7550 Quantitative Research Methods II 3 Credits
This second course in quantitative research methods focuses on the tools, techniques, and approaches of hypothesis testing for the purpose of testing competing explanations based on the observed outcomes and interpretation of results. Students will learn the relationship between null and alternative hypotheses, design of experiments, p-values and rejection regions, metrics of fit for both classification and regression problems, multivariate linear and logistic regression analysis, and introduction to time series analysis and structural equation modelling. Students will test datasets for potential violations of the assumptions needed for these methods, including non-normality and multi-collinearity. Students will have guided reading of both classic and state-of-the-art articles. The discussion of the readings will emphasize model development and application. Cases with included datasets will be used for students in projects to formulate and then test multiple possible hypotheses.

BUSN 7600 Qualitative Research Methods I 3 Credits
Qualitative research seeks to answer questions about the 'what,' 'why,' and 'how' of social phenomena within their natural settings. In this course, graduate students will understand the principles of qualitative research that will cover research design, data collection, data analysis, inferences for problem solving, theory building and presentation of findings. Philosophical approaches from various business disciplines will be discussed. Students will learn a variety of qualitative techniques such as case studies, in-depth interviews, focus groups, ethnography, content analysis and others through grounded theory building and thematic analysis. Particular attention will be given to the ethics of research, the role of the researcher, relationships within the context researched, and the quality criteria for qualitative research.

BUSN 7650 Qualitative Research Methods II 3 Credits
Prerequisite(s): BUSN 7600.
This second course in qualitative research design and methods provides a hands-on approach to understanding qualitative research methodologies and how they can be applied to problem investigation, problem solving, and outcome evaluation in business and other related fields. The course will review contemporary and classic studies that employ qualitative methods in both theoretical and applied contexts, providing the context for using different techniques. Emphasis will be placed on hands-on qualitative data collection and analysis. Through lecture, small group work, and hands-on experience, the course focuses on training in data collection and analytic techniques commonly used in qualitative research. Students will learn to apply a variety of qualitative methods to research topics, and to choose the most appropriate methods.

BUSN 7700 Research Seminar I: Literature Review - Understanding Theory in the Discipline 3 Credits
In this one-on-one seminar course led by the dissertation chair, students will examine a curated selection of discipline-specific, peer-reviewed journal articles important to and representative of the discipline. A unique list of articles will be pre-set for each discipline but can be adjusted by the dissertation chair based on student interest. At the end of the semester, students will identify their subfield of interest for dissertation research and, with consultation from the dissertation chair, produce a reading list to be examined in Research Seminar II. Students will be evaluated on the understanding and presentation of the selected papers, identification of the dissertation research topic area, and the quality and content of the reading list for Research Seminar II.

BUSN 7710 Research Seminar II: Literature Summary for Research Question of Dissertation 3 Credits
In this instructor led seminar, students will conduct a focused literature review based on the reading list generated at the end of Research Seminar I. They will synthesize and find their dissertation research question from this reading list. Throughout the semester, students will present to their peers. With consultation from the dissertation chair and guidance from the course instructor, this work will culminate in a written literature review that concludes with a more focused area from which the dissertation topic will evolve. The goal of this course is to finish the draft of the literature review section of the dissertation. Research paper generated from this seminar will be part of the dissertation. The instructor will design the class to achieve the goals of the seminar through structured steps, assignments, directional advice, and a peer-learning and supportive community. Students will be evaluated based on the quality and timely completion of the write-up of the literature review related to the dissertation research question.

BUSN 7720 Research Seminar III: Hypotheses & Theory Development 3 Credits
Prerequisite(s): BUSN 7710.
In this instructor led seminar, students, in consultation with Dissertation Chair, will develop hypotheses for their research question. Based on the focused literature review in Research Seminar II, these hypotheses should be linked to relevant theories. Students will present their research questions, hypotheses and underlying theories to their peers. This work will culminate in a research paper focused around the dissertation research question, contextualizing the question within the relevant literature, demonstrating an understanding of the relevant theories, and proposing a testable hypothesis. Research paper generated from this seminar will be part of the dissertation. The instructor will design the class to achieve the goals of the seminar through structured steps, assignments, directional advice, and a peer-learning and supportive community. Students will be evaluated based on the research paper and their presentations.

BUSN 7730 Research Seminar IV: Exploring Methodologies for Dissertation 3 Credits
Under the guidance of the dissertation chair, each student will work independently to identify and learn about the methodologies appropriate for their dissertation topic and hypothesis testing. Students will collect or secure the data needed to test the hypotheses identified in Research Seminar III. Students will be evaluated based on the appropriateness of the methodologies to be used and whether the required data to test the hypotheses have been secured.

BUSN 7740 Research Seminar V: Methodology for Testing Hypotheses 3 Credits
Prerequisite(s): BUSN 7730.
Under the guidance of the dissertation chair, students will develop a paper describing their refined research question, the hypotheses to be tested, the data to be analyzed, and the research methodologies to be used. Students will present preliminary test results. Students will be evaluated based on the paper and presentation. Research paper generated from this seminar will be part of the dissertation. The instructor will design the class to achieve the goals of the seminar through structured steps, assignments, directional advice, and a peer-learning and supportive community.

BUSN 7750 Research Seminar VI: Empirical Testing & Results for Dissertation 3 Credits
Prerequisite(s): BUSN 7740.
Under the guidance of the dissertation chair, students will analyze their data using the appropriate methodologies. Students will develop a paper presenting and discussing their results in relation to their hypotheses. Implications of the findings for practices and for future research, as well as research limitations shall be substantially and meaningfully discussed. Research paper generated from this seminar will be part of the dissertation. The instructor will design the class to achieve the goals of the seminar through structured steps, assignments, directional advice, and a peer-learning and supportive community.

BUSN 7800 Dissertation Proposal Defense 3 Credits
Prerequisite(s): BUSN 7740.
In this course, the students will write, edit and finalize their dissertation proposal. They will learn and apply all style requirements of the proposal. The Dissertation Committee, led by the Chair will guide the student. Successful defense of an oral presentation of the dissertation proposal to the Dissertation Committee is required to move on to the next stage.

BUSN 7900 Dissertation Defense 3 Credits
Prerequisite(s): BUSN 7750, 7800.
In this course, the students will complete their dissertation. They will adhere to all style requirements. The Dissertation Committee, led by the Chair will guide the student. To complete the Executive DBA Program and earn the degree students must: • Successfully defend an oral presentation of the dissertation to the Committee • Provide the written Dissertation, with all compliance to style and formatting requirements

Chemistry (CHEM)

CHEM 1010 Chemistry: Sights and Insights 3 Credits
This course 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.

CHEM 1033 Chemistry of Nutrition 3 Credits
Course Tags: Educational Studies Cognate, Health Studies: Science and Technology
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. Students may take either CHEM 1033 or CHEM 1072 as a core science requirement, but not both.

CHEM 1072 Philosophy and Biochemistry of Food and Eating Practices 3 Credits
Prerequisite(s): PHIL 1101.
An essential 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). The course combines lecture with activities such as trips to museums, guest lectures, and in-class laboratory activities. Note: Students may take either CHEM 1033 or CHEM 1072 as a core science requirement, but not both. Crosslisted with PHIL 2218.

CHEM 1073 Culinary Chemistry 3 Credits
This course explores the chemical transformations underlying common culinary processes. Students will gain a molecular-level appreciation of culinary context (salt, fat, acid, heat) and execution (grilling, baking, braising, fermentation). Special attention will be given to data collection, analysis, and interpretation. Students will explore course concepts through hands-on homework. Because cooking is shared across cultures, this class will also devote time to questions of food access, security, and human health. Note: This course counts as a science core course but does not satisfy the requirements for the chemistry major or minor.

CHEM 1076 Environmental Science 3 Credits
Course Tags: Environmental Studies Elective, Environmental Studies Major Elective, Environmental Studies: Natural Science, Magis Core: Interdisciplinary
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. Crosslisted with BIOL 1076.

CHEM 1077 Introduction to Forensic Science 3 Credits
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.

CHEM 1083 Survey of Chemistry 3 Credits
This 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.

CHEM 1085 Chemistry, Energy, and the Environment 3 Credits
Course Tags: Educational Studies Cognate, Environmental Studies Elective, Environmental Studies Major Elective, Environmental Studies: Natural Science, Magis Core: Interdisciplinary
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.

CHEM 1086 Chemistry and Art 3 Credits
Course Tags: Educational Studies Cognate
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.

CHEM 1087 Molecules of Life 3 Credits
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.

CHEM 1171 General Chemistry I 3 Credits
Corequisite(s): CHEM 1171L.
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, geometrics 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.

CHEM 1171L General Chemistry I Lab 1 Credit
Fee: $130 Chemistry Lab Fee
Corequisite(s): CHEM 1171.
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.

CHEM 1172 General Chemistry II 3 Credits
Course Tags: Health Studies: Science and Technology
Corequisite(s): CHEM 1172L.
Prerequisite(s): CHEM 1171, CHEM 1171L.
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, geometrics 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.

CHEM 1172L General Chemistry II Lab 1 Credit
Fee: $130 Chemistry Lab Fee
Corequisite(s): CHEM 1172.
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.

CHEM 1184 General Chemistry for Health Science 0-3 Credits
Course Tags: Health Studies: Science and Technology
Corequisite(s): CHEM 1184L.
This course introduces the general principles of chemistry (matter and measurement, atomic and molecular structure, energetics, acids and bases, oxidation, and reduction) in a manner that prepares students to relate to properties of organic materials and biologically relevant substances such as carbohydrates, lipids, peptides, proteins, and nucleic acids. The course focuses on general principles and introduces organic and biologically relevant substances. This course is directed to School of Nursing students and students in the Health Studies minor.

CHEM 1184L General Chemistry for Health Science Lab 1 Credit
Fee: $130 Chemistry Lab Fee
Corequisite(s): CHEM 1184.
This lab illustrates lecture concepts of CHEM 1184 and allows students to observe relevant physical systems.

CHEM 2271 Organic Chemistry I 3 Credits
Corequisite(s): CHEM 2271L.
Prerequisite(s): CHEM 1172 and CHEM 1172L.
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..

CHEM 2271L Organic Chemistry I Lab 1 Credit
Fee: $130 Chemistry Lab Fee
Corequisite(s): CHEM 2271.
This lab emphasizes the manipulative techniques of separation, purification, analysis, and simple syntheses.

CHEM 2272 Organic Chemistry II 3 Credits
Corequisite(s): CHEM 2272L.
Prerequisite(s): CHEM 2271.
This course 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.

CHEM 2272L Organic Chemistry II Lab 1 Credit
Fee: $130 Chemistry Lab Fee
Corequisite(s): CHEM 2272.
This lab emphasizes investigative experiments, more complex synthesis, and qualitative organic analysis.

CHEM 2282 Chemical Analysis 3 Credits
Course Tags: Environmental Studies Major Elective, Environmental Studies: Natural Science
Corequisite(s): CHEM 2282L.
Prerequisite(s): CHEM 1172.and CHEM 1172L.
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.

CHEM 2282L Chemical Analysis Lab 1 Credit
Course Tags: Environmental Studies Elective, Environmental Studies: Natural Science
Fee: $130 Chemistry Lab Fee
Corequisite(s): CHEM 2282.
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.

CHEM 2291 Chemistry and Social Justice 3 Credits
Prerequisite(s): CHEM 2272.
In this course, students will learn about and reflect on the systematic racism and sexism that exist in STEM, and specifically in the chemistry/biochemistry fields. Students will learn historically important scientific discoveries made by Black chemists and research (and celebrate!) contemporary scientists from traditionally underrepresented groups. Students will also learn about technological, industrial, and medical advances and reflect on how these advances can have adverse, and inequitable, effects. The course will explore how principles of green chemistry are being applied in current research programs to solve social justice related issues, like reducing our dependance on non-renewable natural resources.

CHEM 3311 Forensic Science in the Health Care Setting 3 Credits
Course Tags: Health Studies: Traditions, Delivery, and Ethics
Prerequisite(s): CHEM 2272, CHEM 2272L.
This course explores forensic science and its intersection with health care by discussing the interdisciplinary team working to serve patients who may also be victims of crime. From a health care perspective, students learn types of violent crimes, victimology, prevalent population based health issues, trauma-informed care, and forensic healthcare interventions. From a forensic scientific perspective, students explore the scientific techniques used to analyze physical or chemical evidence collected in a health care setting. Students put their learning into practice by participating in caring for victims of mock crimes in simulated clinical rooms, and analyzing collected evidence in the laboratory.

CHEM 3323L Biochemistry Lab 1 Credit
Fee: $130 Chemistry Lab Fee
Corequisite(s): BIOL 3324 or BIOL 3325 or CHEM 3324 or CHEM 3325.
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.

CHEM 3324 Biochemistry I 3 Credits
Course Tags: Biology: Physiology/Morphology
Prerequisite(s): CHEM 2272.
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. Crosslisted with BIOL 3324.

CHEM 3325 Biochemistry II 3 Credits
Course Tags: Biology: Physiology/Morphology
Prerequisite(s): CHEM 2272 and CHEM 3324 or BIOL 3324.
This course will investigate how biochemists study and manipulate the molecular systems of life. Building on foundational knowledge of biomolecular structure and basic metabolism, we will explore experimental approaches to understanding information flow from DNA to proteins, molecular recognition and signaling networks, and the methods used to engineer biological systems. Students will learn to design experiments, interpret results from diverse biochemical techniques, and apply biochemical principles to complex biological problems. Crosslisted with BIOL 3325.

CHEM 3326 Chemical Instrumentation 3 Credits
Course Tags: Environmental Studies Elective, Environmental Studies Major Elective, Environmental Studies: Natural Science
Prerequisite(s): CHEM 2282.
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.

CHEM 3326L Instrumental-Analytical Chemistry Lab 3 Credits
Course Tags: Environmental Studies Elective, Environmental Studies Major Elective, Environmental Studies: Natural Science
Fee: $130 Chemistry Lab Fee
Prerequisite(s): CHEM 3326.
This course exposes students who have already been introduced to the theory of classical (CHEM 2282) and instrumental (CHEM 3326) methods of analysis to problem solving using a variety of physical and chemical methods. The early portion of this course consolidates the classroom principles of analytical chemistry into a holistic understanding of analytical chemistry, giving students a further appreciation of the general considerations made when designing an approach to problem solving in analysis. Students receive hands-on exposure to the following aspects of analytical chemistry: basic electronics as appropriate to common instrumentation, methodology involved in equipment maintenance and troubleshooting, exposure to solving real-world analytical problems, and use of small computers and interfaces in the lab. The course emphasizes oral communication of results among all lab participants.

CHEM 3341 Advanced Inorganic Chemistry 3 Credits
Corequisite(s): CHEM 3361.
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.

CHEM 3341L Advanced Inorganic Chemistry Lab 2 Credits
Fee: $130 Chemistry Lab Fee
Corequisite(s): CHEM 3341.
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.

CHEM 3361 Physical Chemistry I 3 Credits
Corequisite(s): CHEM 3361L.
Prerequisite(s): CHEM 1172 and CHEM 1172L and MATH 1142 or higher, and PHYS 1172.
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.

CHEM 3361L Physical Chemistry I Lab 1 Credit
Fee: $130 Chemistry Lab Fee
Corequisite(s): CHEM 3361.
This course demonstrates and verifies concepts covered in Physical Chemistry lecture courses. 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.

CHEM 3362 Physical Chemistry II 3 Credits
Corequisite(s): CHEM 3362L.
Prerequisite(s): CHEM 1172 and CHEM 1172L; MATH 1142 or higher, and PHYS 1172.
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.

CHEM 3362L Physical Chemistry II Lab 1 Credit
Fee: $130 Chemistry Lab Fee
Corequisite(s): CHEM 3362.
This course demonstrates and verifies concepts covered in Physical Chemistry lecture. 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.

CHEM 4971 Research and Seminar I 1-3 Credits
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 permission only.

CHEM 4972 Research and Seminar II 1-3 Credits
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 permission only.

CHEM 4973 Research and Seminar III 1-3 Credits
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 permission only.

CHEM 4974 Research and Seminar IV 1-3 Credits
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 permission only.

CHEM 4975 Research and Seminar V 1-3 Credits
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 permission only.

CHEM 4976 Research and Seminar VI 1-3 Credits
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 permission only.

CHEM 4977 Chemistry Research and Seminar 1-3 Credits
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 permission only.

CHEM 4990 Independent Study 1-3 Credits
Prerequisite(s): CHEM 3362.
This course, designed for students seeking an in-depth examination of a pre-specified area under the close direction of a faculty member, presents topics not routinely encountered in the normal course sequence.

Chinese (CHIN)

CHIN 1110 Elementary Chinese I 3 Credits
Course Tags: Asian Studies Elective
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.

CHIN 1111 Elementary Chinese II 3 Credits
Course Tags: Asian Studies Elective
Prerequisite(s): CHIN 1110.
This course, a continuation of CHIN 1110, 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.

CHIN 2210 Intermediate Chinese I 3 Credits
Course Tags: Asian Studies Elective
Prerequisite(s): CHIN 1111.
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.

CHIN 2211 Intermediate Chinese II 3 Credits
Course Tags: Asian Studies Elective
Prerequisite(s): CHIN 2210.
This course, a continuation of CHIN 2210, 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.

CHIN 2220 Advanced Chinese 3 Credits
Course Tags: Asian Studies Elective
Prerequisite(s): CHIN 2211.
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.

CHIN 2221 Reading China 3 Credits
Course Tags: Asian Studies Elective
Prerequisite(s): CHIN 2211.
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.

CHIN 2250 Modern China Through Fiction and Film 3 Credits
Course Tags: Asian Studies Elective, Diversity, Equality, and Inclusion Minor Elective, Magis Core Exploration: Literature
This course is 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? Crosslisted with ENGL 1180.

CHIN 3990 Independent Study 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. Enrollment by permission only.

Communication (COMM)

COMM 1100 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. This course counts in the social and behavioral sciences core curriculum for non-majors.

COMM 1101 Argument and Advocacy 3 Credits
Course Tags: Educational Studies Cognate
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 upper-level communication courses.

COMM 1102 Introduction to Public Relations 3 Credits
Course Tags: Sports Media Elective
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.

COMM 1108 Introduction to Sports Broadcasting 3 Credits
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.

COMM 1130 Mass Media and Society 3 Credits
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.

COMM 1232 Television Studio Production 3 Credits
Course Tags: Sports Media Elective
This course offers a theoretical and hands-on introduction to the art and technology of television production within both a studio and field-based context. Students receive instruction on the creative and aesthetic use of the elements and technology of 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. Previously FTMA 2232, FTMA 1232.

COMM 2200 Interpersonal Communication Theories 3 Credits
Course Tags: Educational Studies Cognate
Prerequisite(s): COMM 1100.
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.

COMM 2201 Persuasion 3 Credits
Prerequisite(s): COMM 1100 or COMM 1102.
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.

COMM 2202 Small Group Communication 3 Credits
Prerequisite(s): COMM 1100 or COMM 1102.
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 team-building. Because the course involves examining small groups in process, students do a substantial amount of group work.

COMM 2205 Nonverbal Communication: Emojis, Emotions, and Employment 3 Credits
Prerequisite(s): COMM 1100.
This course explores a wide variety of nonverbal behaviors including: proxemics, haptics, chronemics, kinesics, artifacts, paralinguistic cues, and written communication. The course uses an applied approach to enhance understanding of the impact of nonverbal behaviors on interpersonal, intercultural, and organizational communication contexts and interactions. The role of nonverbal cues in complementing, accenting, substituting, repeating, or contradicting verbal messages will also be examined. The importance of effectively using and interpreting nonverbal behaviors in both personal (platonic and romantic) and professional relationships will be explored using textual analyses and participant-observation exercises.

COMM 2220 Introduction to Organizational Communication 3 Credits
Course Tags: Business Elective, Sports Media Elective
Prerequisite(s): COMM 1100 or COMM 1102.
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.

COMM 2231 Media Institutions 3 Credits
Course Tags: Digital Journalism Elective, Sports Media Elective
Prerequisite(s): COMM 1130.
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.

COMM 2236 Gender, Sexuality, and Media 3 Credits
Course Tags: Sports Media Elective, Women, Gender, and Sexuality Studies: Gender Focused
Prerequisite(s): COMM 1130.
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.

COMM 2237 Sports, Media, and Culture 3 Credits
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.

COMM 2238 Communication and Popular Culture 3 Credits
Course Tags: American Studies: Communication
Prerequisite(s): COMM 1130.
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.

COMM 2239 Consumer Culture 3 Credits
Prerequisite(s): COMM 1130.
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."

COMM 2240 Intercultural Communication 3 Credits
Course Tags: Educational Studies Cognate, International Studies Elective
Prerequisite(s): COMM 1100 or COMM 1102 or INST 1050.
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.

COMM 2241 Communication and Culture: East and West 3 Credits
Course Tags: Asian Studies Elective, International Studies Elective
Prerequisite(s): COMM 1100 or COMM 1102 or INST 1050.
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.

COMM 2242 Alcohol, Addiction, and Culture 3 Credits
Course Tags: Educational Studies Cognate, Health Studies: Social Science
Prerequisite(s): COMM 1100 or COMM 1102.
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.

COMM 2246 Family Communication 3 Credits
Course Tags: Educational Studies Cognate, Women, Gender, and Sexuality Studies: Gender Focused
Prerequisite(s): COMM 1100 or COMM 1102 or COMM 1130.
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.

COMM 2250 Sports Media Industry 3 Credits
This course critically examines the assemblage of corporations, institutions, and actors that make up the sports media industry, with a focus on the practices, policies, and relationships within and between them. The course will combine academic readings from media studies, media industries studies, and sports studies with readings from popular press and trade publications to examine the sports media industry from differing angles: historical, technological, cultural, economic, and institutional. Further, students will critically engage with pressing issues in the industry including conglomeration, industry changes from technological shifts, discrimination and inequality, and the tensions between entertainment, journalism, and politics.

COMM 2252 Broadcast Communication 3 Credits
Course Tags: Sports Media Elective
Prerequisite(s): COMM 1100 or COMM 1101.
This course offers an overview of the field of and skills associated with broadcasting on television. The goal is to make you a more effective communicator in a fast paced industry by learning how to think, report, and write like a broadcaster. Students will also learn the importance of powerful storytelling through writing and the use of video and sound.

COMM 2299 Communication Research Methods 3 Credits
The primary purpose of this course is to investigate the communication discipline as a social science. We begin by examining the scientific method and how it is used to produce empirical research that either tests communication theories or generates communication theory. We will examine the foundations of quantitative and qualitative research and will review various methodologies including survey, experiment, content analysis, ethnography, field interviews, and focus group. We will also review different areas of research and theory within the communication discipline (i.e., persuasive, interpersonal, organizational, public relations, nonverbal, instructional, mediated, etc.). Rather than focusing exclusively on how communication research is conducted, you will learn how to read, interpret, and use research findings to address communication-related problems in your personal and professional lives. Additionally, it is my hope that you will gain an appreciation for communication research and theory and for how communication knowledge is generated through the scientific method.

COMM 2333 Public Relations Strategy Development 3 Credits
Course Tags: Magis Core: Writing in the Discipline
Prerequisite(s): COMM 1102.
This course provides an overview of the concepts and the strategic process of public relations (research, planning, program, and evaluation) by analyzing the public relations cases. This course introduces primary functions of public relations (e.g., media relations, employee relations, consumer relations, community relations, crisis communication, and social media engagement) in different sectors including corporate, non-profit, and government. Upon the course completion, students will understand the purpose of public relations programs and research and be able to develop an appropriate public relations strategy to solve problems.

COMM 3245 Identities, Discourse, and Social Change 3 Credits
Course Tags: Black Studies Focus Course, Peace and Justice Studies, Women, Gender, and Sexuality Studies: Gender Component
Prerequisite(s): COMM 1100.
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.

COMM 3248 Health Communication 3 Credits
Course Tags: Health Studies: Social Science, Public Administration Public Health
Prerequisite(s): 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.

COMM 3249 Communicating Inequality in American Healthcare 3 Credits
This course applies a bifocal social justice-communication lens to the evolution of access and delivery of U.S. health care. The course will examine the communication inequities in American health care co-cultures, including: providers, patients, and insurers, as well as the impact of politics, economics, technology, etc. In addition, the dialectical tensions created by acute care/disease-focused vs. prevention/wellness-centric health care delivery models will be highlighted and examined. The evolving economic burdens of an aging population, uninsured Americans, immigration, expanding technology, provider specialization, and fewer health care gatekeepers on the health care system will also be evaluated.

COMM 3322 Leadership Communication 3 Credits
Prerequisite(s): COMM 2220, junior 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.

COMM 3323 Gender and Organizing 3 Credits
Course Tags: Women, Gender, and Sexuality Studies: Gender Focused
Prerequisite(s): COMM 2220, junior 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.

COMM 3324 Crisis Communication 3 Credits
Course Tags: Humanitarian Action Minor Skills/Method Course, Sports Media Elective
Prerequisite(s): COMM 1102, sophomore 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.

COMM 3325 Organizational Communication and Advertising 3 Credits
Course Tags: Sports Media Elective
Prerequisite(s): COMM 2220, junior 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.

COMM 3326 Free Speech: Philosophical Origins to Digital Debates 3 Credits
Prerequisite(s): COMM 1130.
This course examines the origins of free speech starting with the Greeks and ending in recent debates about digital speech. It focuses on differing conceptions of free speech, from individual expression to collective amplification and technology. From the perspective of critical theory we take up issues of power such as who gets to speak and be heard with particular attention to media industries. The course critically examines moments in which speech rights have been debated on campuses, such as the Berkeley Free Speech Movement and Black Lives Matter. Contemporary issues such as trolling, hacking, and mob censorship are discussed.

COMM 3331 American Media / American History 3 Credits
Course Tags: Digital Journalism Elective
Prerequisite(s): COMM 1130, junior standing.
This course examines the role of communication media in history, as well as the history of the media industries. From the earliest media of symbolic interaction to the newest technologies, the course examines why different media come into being, how they function in various societies, and their impact. Students come to understand how media have been influential in maintaining social order and as agents of change. The course pays attention to a variety of national media and international perspectives, with special emphasis on the evolution of American broadcasting.

COMM 3332 Social Media Analytics 3 Credits
In this Social Media Analytics course, students will master various analytical tools to effectively utilize social media data. The course will introduce a suite of tools including engagement analytics, sentiment analysis, social network analysis, influencer identification, and evaluation of social media strategies. The course extends its scope beyond the foundations of analytics to explore the substantial influence of Artificial Intelligence (AI) on public relations (PR) and marketing communications. It explores the integration of AI with social media analytics and how this collaboration is revolutionizing modern business practices. Alongside developing analytical expertise, students will learn to navigate the digital marketing and communication landscape with a firm ethical understanding.

COMM 3333 Public Relations Management and Campaigns 3 Credits
Prerequisite(s): COMM 1102.
This course is designed to introduce students to the process of campaign development, management, and evaluation, and marks the transition from student to professional. This course builds on the public relations courses you have taken previously, and by the end of this course, you should have synthesized your PR knowledge from various texts and courses. The primary goal of this course is to help you master the elements of a strategic communication campaign through direct experience as a practitioner.

COMM 3334 Comparative Media Systems 3 Credits
Course Tags: Digital Journalism Elective, International Studies Elective
Prerequisite(s): COMM 1130, junior standing.
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.

COMM 3335 Globalization, Media, and Culture 3 Credits
Course Tags: International Studies Elective, Islamic World Studies: Humanities
Prerequisite(s): COMM 1130 or INST 1050; junior 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.

COMM 3336 Media Infrastructures 3 Credits
Course Tags: International Studies Elective
This course brings together theoretical frameworks from media studies, urban studies, and science and technology studies to consider how, often invisible, infrastructures enable or preclude the mobility of texts, people, and ideas across the globe. Foregrounding critical infrastructure studies, which focuses on the relationship of infrastructures with power, it will take up questions of access, exclusion, breakdown, and agency in relation to urban environments, digital cultures, and global politics.

COMM 3337 Visual Communication 3 Credits
Course Tags: Graphic Design: Communication
Prerequisite(s): COMM 1130, junior standing.
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.

COMM 3340 Conflict Communication 3 Credits
Prerequisite(s): COMM 2200 or COMM 2220; junior 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.

COMM 3344 Interracial Communication 3 Credits
Course Tags: Black Studies Focus Course
Prerequisite(s): COMM 2200, junior standing.
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.

COMM 3345 Relational Communication 3 Credits
Prerequisite(s): COMM 2200 or COMM 2220; junior standing.
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.

COMM 3347 Communication in Healthcare Organizations 3 Credits
Course Tags: Health Studies: Social Science
Prerequisite(s): 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.

COMM 3348 Health Risk Communication 3 Credits
Course Tags: Environmental Studies: Applied Professional Skills, Health Studies: Social Science, Public Administration Public Health
Prerequisite(s): Junior standing.
This course 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.

COMM 3351 Dark Side of Communication 3 Credits
Prerequisite(s): COMM 1100.
This course will examine aversive and problematic interactions in the interpersonal, organizational, and instructional settings. Sample topics include hurtful messages, stalking, aggression, jealousy, fatal attraction, and conflict. Students will take a research-based approach to understanding these undesirable, yet very common, communicative messages.

COMM 4318 Lying and Deception 3 Credits
Prerequisite(s): COMM 2200.
Deception, defined as "a message knowingly transmitted by a sender to foster a false belief or conclusion by the receiver" (Buller & Burgoon, 1998, p. 381), is relatively common. Despite this, we often assume that others are honest and have negative views of deception. At its core, deception represents a discrepancy between thoughts/feelings and the message withheld/expressed. Therefore, this advanced level Communication course will examine various research approaches to understanding deception, motives for deception, and the implications of communicating deception.

COMM 4321 Communication Processes in Organizations: Negotiation 3 Credits
Course Tags: Environmental Studies: Applied Professional Skills
Prerequisite(s): COMM 2220, junior 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.

COMM 4328 Palliative Care Communication: USA & Italy 3 Credits
Course Tags: Health Studies: Social Science, Magis Core: Interdisciplinary
Prerequisite(s): Junior 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 Italy. 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 Italy. Open to students with majors or minors in communication, health studies, nursing, public health, or public relations, as well as health professions students. Previously COMM 4326.

COMM 4330 Misinformation in Digital Media 3 Credits
Prerequisite(s): COMM 1130, junior standing.
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.

COMM 4332 Children as Media Consumers 3 Credits
Prerequisite(s): COMM 1130, junior standing.
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, video games, 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.

COMM 4333 News Media and Democracy 3 Credits
Course Tags: Digital Journalism Elective
Prerequisite(s): COMM 1130, junior standing.
The news media play an essential role in changing America and the world. By bridging theory with practice, this course aims to equip students to become critical news consumers with a skilled understanding of how that works and politically literate about the big issues of our time. Through classic scholarly reflections as well as contemporary punditry, we will tackle the news media "critically" across three dimensions: learning about its indispensable function in mediating politics and democracy throughout history and today; studying and practicing the craft of opining writing and social advocacy; and evaluating and critiquing the performance of the press in these matters.

COMM 4336 Social Media 3 Credits
Prerequisite(s): COMM 1130, junior standing.
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.

COMM 4339 Topics in Media Theory and Criticism 3 Credits
Prerequisite(s): COMM 1130, junior 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.

COMM 4341 End of Life Communication 3 Credits
Course Tags: Health Studies: Social Science
Prerequisite(s): Junior standing.
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 undergraduate students in the classroom and the hospice setting.

COMM 4343 Ethics and Medical Marketing Communication 3 Credits
Course Tags: Health Studies: Traditions, Delivery, and Ethics
Prerequisite(s): Junior 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.

COMM 4346 Communication and Spirituality 3 Credits
Prerequisite(s): COMM 2200, junior 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.

COMM 4350 Family Crisis Communication 3 Credits
Course Tags: Educational Studies Cognate, Health Studies: Traditions, Delivery, and Ethics
Prerequisite(s): Junior standing.
From health to economic and relational crises, this course addresses the complexities of family communication in the context of our increasingly diverse family constructions. The course asks: What is the role of communication in helping families navigate challenging moments? We ask this question while developing our understanding of family as a social construction, exploring the ways in which crisis communication in the family is historically and culturally situated. Through readings and reflections on family life, the course recognizes multiple perspectives on "normal" family interaction in stressful circumstances, with a critical understanding of our own assumptions about the family construct.

COMM 4352 Global Mediated Activism 3 Credits
Course Tags: International Studies Elective
Prerequisite(s): COMM 1130.
This class critically examines processes by which publics use and are used by media in the quest for social change around the globe. Social movements have frequently objected to their representation by mainstream media industries and sought to either affect coverage or produce their own media platforms and narratives. The possibilities for mediated activism have increased in an era of user-generated content, while also introducing increasing competition for the time, attention and enthusiasm of publics. Through theories of social movements, communication technologies and publics this course will address processes of assembling publics in an increasingly mediated society.

COMM 4353 Latin American Media and the United States 3 Credits
Course Tags: Latinx, Latin American and Caribbean Studies Minor Elective
Prerequisite(s): COMM 1130.
Since the early twentieth century, Latin American countries have produced media forms and texts that, from a US perspective, we view as "distinct" to the region. This course examines these forms and texts in historical, political, social-cultural, and industrial contexts to ask: what is distinct about Latin American media, how have Latin American media shaped life, what has been the US's role in influencing Latin American cultural production, and how has this informed Latin America's mediated terrain? Students will examine this media and their relationship with the US through discussions, portfolios, and debates to demonstrate expertise in this complex area.

COMM 4360 Reality, Media, and Society 3 Credits
Prerequisite(s): COMM 1130.
"Reality" informs the frameworks and content of our highly-mediated world in immense ways. Upon completion, students will be able to assess the various ways in which reality is constructed and framed in current media industries and contexts, and to witness and challenge the ways reality is changing in modes of presentation in emerging media contexts. The course will equip students with the ability to interrogate and question reality in its various industries, landscapes, and disciplines, including those of philosophy, sociology, politics, and media/cultural studies.

COMM 4900 Special Topics (Shell) 3 Credits
Prerequisite(s): COMM 2200, COMM 2220, COMM 2240, junior 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.

COMM 4980 Internship 1-3 Credits
Prerequisite(s): Junior 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. Enrollment by permission only.

COMM 4990 Independent Study 1-3 Credits
Prerequisite(s): Junior 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.

COMM 4999 Capstone: Research Projects in Communication 3 Credits
Prerequisite(s): COMM 1101, COMM 1130; COMM 2200 or COMM 2220; senior standing.
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.

COMM 5321 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: COMM 4321.

COMM 5322 Leadership Communication 3 Credits
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. Undergraduate equivalent: COMM 3322.

COMM 5323 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: COMM 3323.

COMM 5324 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: COMM 3324.

COMM 5325 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: COMM 3325.

COMM 5328 Palliative Care Communication in the United States and Italy 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 Italy. 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 Italy. Undergraduate equivalent: COMM 4328. Previously COMM 5326.

COMM 5330 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: COMM 4330.

COMM 5334 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: COMM 3334.

COMM 5335 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: COMM 3335.

COMM 5336 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: COMM 4336.

COMM 5337 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: COMM 3337.

COMM 5340 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: COMM 3340.

COMM 5341 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: COMM 4341.

COMM 5343 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: COMM 4343.

COMM 5344 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: COMM 3344.

COMM 5345 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: COMM 3345.

COMM 5347 Communication in Healthcare Organizations 3 Credits
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. Undergraduate equivalent: COMM 3347.

COMM 5348 Health Risk Communication 3 Credits
This course 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: COMM 3348.

COMM 5351 Dark Side of Communication 3 Credits
This course will examine aversive and problematic interactions in the interpersonal, organizational, and instructional settings. Sample topics include hurtful messages, stalking, aggression, jealousy, fatal attraction, and conflict. Students will take a research-based approach to understanding these undesirable, yet very common, communicative messages. Undergraduate equivalent: COMM 3351.

COMM 5352 Global Mediated Activism 3 Credits
This class critically examines processes by which publics use and are used by media in the quest for social change around the globe. Social movements have frequently objected to their representation by mainstream media industries and sought to either affect coverage or produce their own media platforms and narratives. The possibilities for mediated activism have increased in an era of user-generated content, while also introducing increasing competition for the time, attention and enthusiasm of publics. Through theories of social movements, communication technologies and publics this course will address processes of assembling publics in an increasingly mediated society. Undergraduate equivalent: COMM 4352.

COMM 5400 Communication Philosophies, Theories, and Research Traditions 3 Credits
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.

COMM 5401 Communication Research Design and Methodologies 3 Credits
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.

COMM 5402 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.

COMM 5410 Perspectives and Theories in Organizational Communication 3 Credits
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.

COMM 5430 Written Communication 3 Credits
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.

COMM 5431 Media Law and Institutions 3 Credits
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.

COMM 5432 Communication Training and Development 3 Credits
Communication training and development focuses on "the process of developing skills in order to perform a specific job or task more effectively. Stated simply, to train is to develop skills" (Beebe, Mottet, and Roach, 2013 p. 5). Therefore, this course adopts a research-based approach to understanding training and development, with the ultimate goal of equipping students with skills necessary to become successful corporate trainers. Some students might pursue careers in training, whereas others will not. Regardless of your career choice, though, there will be times in your professional lives where you work "to develop skills" in others.

COMM 5488 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.

COMM 5501 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.

COMM 5502 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.

COMM 5530 Media Theory and Criticism 3 Credits
This course introduces students to the study of media in the United States. 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.

COMM 5531 Work/Life Intersections 3 Credits
This course examines those situations where work and life intersect and how humans use communication to create, negotiate, and manage work/life intersections.

COMM 5532 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.

COMM 5539 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 United States 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.

COMM 5540 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.

COMM 5547 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.

COMM 5548 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.

COMM 5980 Communication Practicum 3 Credits
The communication practicum is a semester-long internship or other type of placement carried out by graduate students in communication in local, national, or international 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.

COMM 6900 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.

COMM 6961 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.

COMM 6962 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.

COMM 6963 Continuing Project 3 Credits

COMM 6971 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.

COMM 6972 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.

COMM 6973 Continuing Thesis Research 3 Credits

COMM 6990 Independent Study 3 Credits
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. Enrollment by approval of the Graduate Director only, with the sponsorship of a communication faculty member.

Computer Engineering (CPEG)

CPEG 2245 Digital Design I 3 Credits
Corequisite(s): CPEG 2245L.
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.

CPEG 2245L Digital Design I Lab 1 Credit
Fee: $132 Electrical and Computer Engineering Lab Fee
Corequisite(s): CPEG 2245.
This lab course covers the practical aspects of digital logic design. Students design and implement logic circuits using techniques taught in CPEG 2245. Students gain experience using state of the art design software and development boards, which use modern field programmable gate array (FPGA) technology.

CPEG 3246 Digital Electronics Design II 3 Credits
Prerequisite(s): CPEG 2245.
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. Graduate equivalent: ECEG 5406.

CPEG 3331 Biomedical Signal Processing 3 Credits
Prerequisite(s): CPSC 1131 or SWEG 5407; MATH 1142.
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. Graduate equivalent: ECEG 5331.

CPEG 3346 Computer Systems Architecture 3 Credits
Prerequisite(s): CPEG 2245.
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. Graduate equivalent: ECEG 5346.

CPEG 4320 Computer Networks 3 Credits
Prerequisite(s): CPSC 1131, MATH 4351.
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. Graduate equivalent: ECEG 5460.

CPEG 4325 Computer Graphics 3 Credits
Prerequisite(s): CPSC 1131.
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. Graduate equivalent: ECEG 5325.

CPEG 4332 Biomedical Imaging 3 Credits
Prerequisite(s): BIEG 3331 or CPEG 3331.
The fundamentals and applications of medical imaging techniques will be presented, including x-ray and computed tomography, nuclear imaging, ultrasound, and MRI. Image processing and analysis techniques will be introduced through suitable programming exercises. Graduate equivalent: ECEG 5332.

CPEG 4333 Biomedical Visualization 3 Credits
Prerequisite(s): CPSC 1131.
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. Graduate equivalent: ECEG 5333.

Computer Science (CPSC)

CPSC 1101 Introduction to Computing 3 Credits
Course Tags: Educational Studies Cognate
In this course, students learn computational problem-solving techniques through the process of design, implementation, testing, and documentation using the programming language Python. 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. Students will get an understanding of the breadth of computing as a discipline and how it exists in the world by identifying computing applications in society and exposing them to a variety of computing topics.

CPSC 1131 Fundamentals of Programming 3 Credits
Course Tags: Business Elective, Educational Studies Cognate
This course introduces programming constructs and techniques in a logical progression beginning with small problems and basic algorithms through larger scale programs and design. While not an object oriented course, classes and objects are used in an ancillary capacity while working on broader topics of software architecture. Complete programs will be designed, coded, and debugged in both Java and the C programming language, developing skills necessary to work with more complex software systems.

CPSC 1152 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.

CPSC 1201 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.

CPSC 2231 Object-Orientated Programming 3 Credits
Corequisite(s): CPSC 2231L.
Prerequisite(s): CPSC 1131.
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.

CPSC 2231L Object-Orientated Programming Lab 1 Credit
Corequisite(s): CPSC 2231.
This lab accompanies the Programming Workshop course for hands-on practice with course concepts.

CPSC 2232 Data Structures 3 Credits
Corequisite(s): CPSC 2232L.
Prerequisite(s): CPSC 2231.
This course presents problem solving with abstract data types such as linked lists, stacks, queues, trees, heaps, and graphs. The course revisits recursion and discusses algorithm efficiency. The course may also include sorting, reachability, and minimal paths in graphs and their algorithms. Students apply data structure concepts in advanced programming.

CPSC 2232L Data Structures Lab 1 Credit
Corequisite(s): CPSC 2232.
This lab accompanies the Data Structures course for hands-on practice with course concepts.

CPSC 2250L Computer Science Sophomore Clinic 1 Credit
Corequisite(s): CPSC 2304.
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.

CPSC 2304 Web Development 3 Credits
Prerequisite(s): CPSC 1131.
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. Graduate equivalent: SWEG 5304.

CPSC 3333 Introduction to Cybersecurity 3 Credits
Prerequisite(s): CPSC 2231.
In this course, students will be given an extensive overview of the various components of cybersecurity, including software development, operating systems, databases, and networks. Students 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 reinforce the concepts that are introduced. Graduate equivalent: SWEG 5333.

CPSC 3343 Design and Analysis of Algorithms 3 Credits
Prerequisite(s): CPSC 2232.
This course focuses on algorithmic problem-solving techniques including decrease-and-conquer, divide-and-conquer, transform-and-conquer, dynamic programming, greedy design, backtracking, branch and bound, and heuristic algorithms. Advanced data structure techniques are studied within the context of designing efficient graph algorithms. Students gain an appreciation for the fundamental notion of NP completeness. The asymptotic analysis of algorithmic complexity is emphasized throughout the course.

CPSC 3349 Cloud Computing 3 Credits
Prerequisite(s): Junior standing.
This course will introduce the foundations of cloud computing, and familiarize students with the core concepts needed to build, deploy and manage applications in a cloud. Besides the theoretical underpinnings, emphasis will be put on practical experience of using cloud resources and services. Concepts like microservices and containers will be discussed in depth, as well as best practices for building successful cloud native applications and implications for development and operational processes. The course will be a combination of lectures and hands-on experience of a public cloud. Graduate equivalent: SWEG 5349.

CPSC 3351L Computer Science Junior Clinic I 1 Credit
Corequisite(s): SWEG 3301.
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.

CPSC 3352L Computer Science Junior Clinic II 1 Credit
Corequisite(s): SWEG 3302.
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.

CPSC 3354 Theory of Programming Languages 3 Credits
Prerequisite(s): CPSC 2232.
The objective of this course is to provide a better understanding of programming languages and their design. Various concepts and principles underlying the design and use of modern programming languages are considered, mainly: syntax, semantics, type systems, runtime environment. Students take a pragmatic approach to this course which ties in the theory and real-world implications in some selected programming languages. The course has a substantial theoretical component which is supported by programming assignments and projects.

CPSC 4305 Mobile Application Development 3 Credits
Prerequisite(s): CPSC 1131.
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. Graduate equivalent: SWEG 5305.

CPSC 4314 Network Security 3 Credits
This course is intended for individuals who need an understanding of the client-server environment, with any emphasis on network security. The OSI Model, network concepts, and network architecture are discussed. The components that make up a network, including cabling, wiring hubs, file servers, bridges, switches, routers, network interface cards, network operating systems, and network software and hardware configurations are discussed. Network architectural concepts, wide area networks, remote access, and segmentation are discussed. Operating systems will be discussed and demonstrated. Featured is the seven-layer OSI model, the foundation of today's communication protocols. Students will work with various security protocols and configure routers and switches with security methods.

CPSC 4315 Computational Biology 3 Credits
Prerequisite(s): Junior standing.
This course is designed to benefit computational and experimental biologists to understand the principles of analyzing biological data, building models and testing hypotheses using computer science paradigms. Students will learn how to build computational tools that are used to analyze DNA content, identify protein binding patterns, compare sequences, and discover variation within genomes. Graduate equivalent: SWEG 5315.

CPSC 4317 Computational Statistics for Biomedical Sciences 3 Credits
Prerequisite(s): Junior standing.
This course will provide a practical introduction to analysis of biological and biomedical data. Basic statistical and machine learning techniques will be covered, including descriptive statistics, linear regression, non-linear regression, classification/prediction, and biomedical data visualization. Emphasis will be on how to choose appropriate data analysis models and how to assess statistical significance. This course will benefit data scientists to apply data science techniques to analyze biomedical data or clinical data. In addition, this course is also designed to benefit computational and experimental biologists to understand the principles of analyzing biological data, building models and testing hypotheses using computer science paradigms. To visualize data and carry out data analysis, students will learn R or Python, and other programming languages for statistical computing and graphics. The class will be a combination of lecture and computer lab. Graduate equivalent: SWEG 5317.

CPSC 4322 Visual Analytics 3 Credits
Prerequisite(s): 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. Graduate equivalent: SWEG 5322.

CPSC 4331 Operating Systems 3 Credits
Prerequisite(s): CPSC 2232.
This course introduces the principles of operating systems, including operating system structure, process and thread synchronization and concurrency, file systems and storage servers, memory management techniques, process scheduling and resource management, virtualization, and more on a UNIX-like platform. It also provides exposure to parallel and distributed computing, focusing on how operating systems support multicore and networked environments across different platforms.

CPSC 4335 Digital Forensics 3 Credits
Prerequisite(s): Junior standing.
In this course students will be given the basic notions and theory of digital forensics. For file systems and operating systems, the class covers investigative techniques and legal and technical considerations that the examiner should make. They will learn concepts, challenges, and tools in applying digital forensics examinations. The course includes, but not limited to, topics in the suggested curriculum of CDFE certification. The course will use lectures, reading assignments, and interactive lab exercises to reinforce the concepts that are introduced. Graduate equivalent: SWEG 5335.

CPSC 4350 Introduction to Data Science 3 Credits
Prerequisite(s): CPSC 1101, Junior or Senior Standing or instructor permission.
This course offers a thorough introduction to data science, focusing on both practical skills and theoretical knowledge across a wide range of topics. It guides students through the entire data science lifecycle, starting from the basics of data wrangling, exploratory data analysis, and visualization, to more advanced topics such as statistical inference, machine learning, and natural language processing. Python with web-based interactive computing platforms, such as JupyterLab, are utilized as the primary tools for hands-on learning. Through a combination of lectures, hands-on projects, and assessments, students will learn to derive insights from data and make informed decisions based on data analysis. Graduate equivalent: SWEG 5350.

CPSC 4355 Artificial Intelligence 3 Credits
Prerequisite(s): CPSC 2232.
This course provides an overview of methods, history, and typical applications of AI. It covers problem solving, machine learning, probabilistic reasoning, classical search algorithms, deep learning, applications (natural language processing, vision). Students solve a variety of AI problems using Python. Students are able to understand the nature of the intelligence behaviors, develop an AI system, grasp the classical approaches to AI research, and apply these approaches and tools for real problem solving. Graduate equivalent: SWEG 5355.

CPSC 4357 Database Management Systems 3 Credits
Prerequisite(s): CPSC 2232.
This course examines data management systems; relational database model; domains and relational integrity; structured query language (SQL); database design, logical and physical; entity-relationship diagrams; normalization; transaction processing; and database administration. Students perform a number of hands-on exercises using an industry-standard database for modern applications. Graduate equivalent: SWEG 5357.

CPSC 4360 Machine Learning 3 Credits
Prerequisite(s): Junior standing.
This course will provide a practical introduction to machine learning applications such as face recognition, clinical diagnosis, speech recognition, natural language processing, or image classification. Topics such as regression, classification, neural networks, deep learning, and ensemble methods will be discussed. Emphasis will be on how to choose appropriate machine learning and deep learning models and how to evaluate their performance. The class will be a combination of lecture and computer lab. Graduate equivalent: SWEG 5360.

CPSC 4366 Deep Learning 3 Credits
Prerequisite(s): CPSC 4360.
This course offers a comprehensive introduction to the fundamental principles, theories, and practical aspects of deep learning. Lectures will begin with the basics of shallow neural networks before progressing to complex deep neural network structures. The topics include an overview of key neural network architectures, such as convolutional, recurrent, and autoencoder networks, and their applications in computer vision for tasks like image classification and segmentation, as well as in natural language processing for text classification and machine translation. Additionally, students will learn to craft deep learning architectures using Python on open-source machine learning platforms. Through a combination of lectures, practical exercises, and final projects, students will acquire the ability to implement deep learning models in real-world situations. Graduate equivalent: SWEG 5366.

CPSC 4521 Information Visualization 3 Credits
Prerequisite(s): Junior standing.
This course introduces basic elements of Information Visualization, which is concerned with the creation of visual representations of Big Data abstract phenomena for which there may not be a natural physical reality, such as stock market movements, social relationships, gene expression levels, manufacturing production monitoring, survey data from political polls, or supermarket purchases. Students will be exposed to techniques covering the five main phases of developing information visualization tools: representation, presentation, interaction, perception and interpretation, and evaluation. Students will be required to develop a large project related to information visualization. Graduate equivalent: SWEG 5521.

CPSC 4525 Human Computer Interaction 3 Credits
Prerequisite(s): Junior standing.
This course introduces students to the foundations of Human Computer Interaction and how it applies in software engineering and research settings. Students will learn how to design user interfaces based on the capabilities of computer technology and the needs of human factors. They will design user interfaces and learn how to implement a prototype from a list of informal requirements. It will also introduce students to issues related to human subject research as well as ethical implications of human computer interaction. Graduate equivalent: SWEG 5525.

CPSC 5101 Introduction to Computing. 3 Credits
In this course, students learn computational problem-solving techniques through the process of design, implementation, testing, and documentation using the programming language Python. 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. Students will get an understanding of the breadth of computing as a discipline and how it exists in the world by identifying computing applications in society and exposing them to a variety of computing topics.

Counseling (COUN)

COUN 5350 Introduction to Substance and Process Addictions 3 Credits
This course includes the history and other related issues of substance use and process addiction including the neurobiological and medical foundation and etiology of addiction and co-occurring disorders; process addictions counseling including but not limited to gambling, sex, food, alcohol, or drugs; and basic concepts of terminology, models, ethical issues, substance classifications, effects and associated dangers, assessment, diagnosis, and treatment planning with both adults and children. Previously COUN 5465.

COUN 5410 Grief and Loss Counseling 3 Credits
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. This course is open only to matriculated counselor education candidates; others by permission of the department chair.

COUN 5432 Introduction to Clinical Mental Health Counseling 3 Credits
This course provides an introduction to the counseling profession, professional counseling in particular, including but not limited to history, roles and responsibilities, interdisciplinary teams, advocacy, consultation, collaboration, leadership, professional organizations, basic counseling knowledge and skills, and service delivery models, record keeping, and reimbursement.

COUN 5433 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.

COUN 5446 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.

COUN 5447 Lifespan Development for Professional Counseling 3 Credits
This course explores the processes of individual and family development through the lifespan. It explores theories of learning; theories of normal and abnormal personality development; biological, neurological, and physiological factors that affect human development, functioning, and behavior; effects of systemic and environmental factors on human development, functioning, and behavior; effects of crisis, disasters, and trauma on diverse individuals across the lifespan; a general framework for understanding differing abilities and strategies for differentiated interventions; and ethical and culturally relevant strategies for promoting resilience and optimum development and wellness across the lifespan.

COUN 5448 Eating Disorders: Etiology, Assessment, and Interprofessional Teaming 3 Credits
This course will provide an interprofessional perspective on the following aspects of eating disorders: etiology, assessment/level of care, and best practices in interprofessional teaming. It will provide an introductory perspective on the various diagnoses in this category as well as information about wellness and prevention practices.

COUN 5454 Introduction to Counseling Children and Adolescents 3 Credits
Prerequisite(s): COUN 5447, COUN 5501, COUN 5553.
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.

COUN 5457 Career Development: Theory and Practice 3 Credits
Fee: $95 SEHD 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.

COUN 5468 Legal and Ethical Issues in Counseling 3 Credits
This course covers legal and ethical issues of counseling related to education, accreditation, credentialing, scope of practice, ACA and ASCA ethical guidelines for practice, technology's impact on counseling, legislation and government policy, labor market, self-evaluation, self-care and the role of supervision.

COUN 5501 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.

COUN 5531 Introduction to School Counseling 3 Credits
This course provides an introduction to the counseling profession and school counseling in particular, including the history, roles and responsibilities, interdisciplinary teams, advocacy, consultation, collaboration, leadership, professional organizations, basic counseling knowledge and skills, and models of school counseling.

COUN 5553 Counseling Relationships and Skills 3 Credits
This introductory course equips candidates with various techniques of interpersonal communication and assessment, and reviews their application in counseling. The course emphasizes role-playing with the use of videotape and two-way mirror observation.

COUN 5598 Tevera Onboarding for Counseling Students 0 Credits
This zero-credit course is designed for students as a mechanism for payment of CMHC Technology Fee associated with the Tevera site placement platform used for the clinical training process.

COUN 5780 Introduction to Eating Disorders 1-2 Credits
This course serves as an introduction to eating disorders for counselors, including self-reflection on students' relationship with food and body image. The purpose of the course is to: 1) review the DSM-5 diagnoses in this category, along with symptomatology; 2) discuss etiology, with a focus on cultural perspectives; 3) understand best practices in assessment; 4) evaluating level of treatment based on risk; 5) understand theories of treatment; 6) explore public health prevention options; 7) understand diversity issues in eating disorder treatment; 8) understand tailoring treatment to various special populations.

COUN 5785 Interpersonal Theory of Suicide 2 Credits
Students will learn about the Joiner's Interpersonal Theory of Suicide (Joiner, 2009) and its application in the field of clinical mental health counseling. Students will demonstrate the ability to look at cases where suicide is a potential risk and determine how the case will be conceptualized through this theory. Students are expected to: (a) recognize the components of what constitutes a suicidal client and define a crisis, (b) critique alternative suicide assessments using this theory, (c) conduct a decision-tree interview, and (d) experiment with implementing several evidence-based crisis interventions.

COUN 5900 Special Topics (Shell) 1-3 Credits
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.

COUN 5900A Special Topics: Eating Disorders 2 Credits
Prerequisite(s): COUN 5501, COUN 5553.
This course will provide an overview of eating disorder diagnosis, treatment, and prevention from a counseling perspective. Emphasis will be placed on a comprehensive approach to evaluation of clients, considering family systems, sociocultural issues, and gender values. Best practices in integrated, team-based treatment approaches will be discussed.

COUN 5900B Special Topics: Interpersonal Theory of Suicide 1 Credit
Prerequisite(s): COUN 5501, COUN 5553.
This course on the Interpersonal Theory of Suicide and its application will be taught with the use of case studies with potential suicide risk. The objectives of the course are to recognize the components of a suicidal client and define a crisis, to critique alternative suicide assessments using this theory, to conduct a decision-tree interview, and to implement evidence-based crisis interventions.

COUN 6250 Diagnosis and Treatment Across the Lifespan 3 Credits
Prerequisite(s): COUN 5433.
This course covers the etiology, nomenclature, treatment, referral, and prevention of mental and emotional disorders across the lifespan. The course includes the diagnostic process and classifications from the Diagnostic and Statistical Manual of Mental Disorders (DSM) and the International Classification of Diseases (ICD) as well as indications and contraindications of commonly prescribed psychopharmacological medications for appropriate medical referral and consultation. The department recommends that the course be taken after or concurrently with COUN 5468.

COUN 6322 Substance Use Counseling: HIV/AIDS and Other Conditions/ Disorders 1 Credit
This course will introduce students to substance use and Human Immunodeficiency Virus and Acquired Immunodeficiency Syndrome. Students will learn to assess, motivate, treat, consult and work in an interdisciplinary team to afford these clients a combination of counseling and medical treatment. Students will learn referral techniques to increase client follow through.

COUN 6326 Psychopharmacology of Substance Use 3 Credits
This course introduces students to the psychopharmacology of substance use. Students will learn how drugs affect the body, brain function and behavior. Students will also examine the neural mechanisms, and individual biological and psychosocial factors that contribute to drug use and the development of substance use disorders. The course will explore the medications for substance use disorders, and public policy related to medication regulation and substance use.

COUN 6450 Career Readiness and College/Workforce Access Counseling in P-12 3 Credits
Prerequisite(s): COUN 5433, COUN 5457, COUN 5531.
This course offers a comprehensive introduction to the career readiness and college access counseling role of the school counselor working within the P-12 school setting. By utilizing an equity, diversity, and inclusion framework the course will explore career readiness and college access from a holistic and lifespan developmental perspective. In view of the CACREP standards, this course will explore and appropriately address the American School Counselor Association (ASCA) national domains in academic, career, and the personal needs of P-12 students from kindergarten through high school as it relates to transitioning into career readiness, college/work force access, and planning.

COUN 6455 Group Work: Theory and Practice 3 Credits
Prerequisite(s): COUN 5553.
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 includes an experiential component.

COUN 6467 Assessment in Counseling 3 Credits
Fee: $95 SEHD Lab Fee
Prerequisite(s): COUN 5553.
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.

COUN 6515 Trauma and Crisis Intervention 3 Credits
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. This course is open only to matriculated counselor education candidates.

COUN 6524 Domestic Violence in Nicaragua 3 Credits
Prerequisite(s): COUN 5553.
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.

COUN 6525 Spirituality and Wellness 3 Credits
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.

COUN 6531 Advanced School Counseling 3 Credits
Prerequisite(s): COUN 5531.
This course will prepare students to understand and use models of P-12 comprehensive career development as well as collaboration and consultation to facilitate school and postsecondary transitions, to foster college and career readiness, and to promote equity in student achievement and college access.

COUN 6533 Advanced Multicultural Counseling Strategies and Skills 3 Credits
Prerequisite(s): COUN 5433, COUN 5553.
This course provides in-depth opportunities for students to deepen and expand their multicultural competencies and counseling skills for working with diverse belief systems and populations. Exploration of diverse spiritual, religious, ethnic, and systemic belief systems will allow students to develop cross-cultural competencies and understanding of the impact of the cultural context on the therapeutic process. Topics included will be pedagogy of the oppressed, religious violence and trauma, and refugee and immigration concerns. This course is an advanced graduate course that includes interpersonal, interactive, and affective content and experiences.

COUN 6553 Advanced Skills and Techniques in Counseling 3 Credits
Prerequisite(s): COUN 5553, 5501.
This course prepares students for their Practicum experience by emphasizing advanced counseling skills and techniques. It will focus on increasing complexity of interventions, specialized treatment protocols, including trauma-informed care, and best practices in tele-mental health. It is an experiential course in a laboratory setting with learning occurring through role-plays and case conceptualization.

COUN 6555 Substance Use Counseling: Skills & Strategies with Diverse Populations 3 Credits
Prerequisite(s): COUN 5350 or a basic understanding of the addictions field.
This course focuses on developing counseling skills and strategies as it relates to substance use counseling with diverse populations. An overview of assessment, treatment planning, relapse prevention and recovery will be explored with a focus on motivational interviewing. The course addresses ethics and theories that are fundamental to addiction counseling with emphasis on the relationship between theory and the practice of effective skills with diverse populations. Candidates will reflect on their personal characteristics as a counselor and define the qualities, knowledge, and essential skills to becoming a competent, ethical, culturally aware counselor in training specific to the treatment of substance use.

COUN 6557 Co-Occurring Disorders in Substance Use Counseling 3 Credits
Prerequisite(s): COUN 5350 or a basic understanding of the addictions field.
This course will cover assessment, diagnosis, and treatment of co-occurring substance use 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. Ethics and continuum of care issues relevant to the recovery process for this special population. Combines didactic and experiential learning opportunities.

COUN 6560 Eating Disorders: Specialized Treatment 3 Credits
Prerequisite(s): COUN 5448.
This course will provide an interprofessional perspective on the various aspects of treatment of eating disorders, using the perspectives of various master's level clinicians (clinical mental health counselors, social workers, marriage and family therapists), providers on the physical health side (clinical nutritionists) and those in the school system (school counseling & school psychology). The focus will be on collaborating as a team to provide best care to those recovering from an eating disorder. This course is open to students in the following graduate programs: Social Work, Counselor Education, Marriage & Family Therapy, School Psychology, and Clinical Nutrition.

COUN 6561 Eating Disorder Prevention 3 Credits
Prerequisite(s): COUN 6560.
This experiential course will allow students to work as a team with a simulated client/patient with eating disordered symptomology to evaluate and determine best aspects of assessments and treatment planning from the perspective of various professional disciplines. In addition, the course will explore models for prevention of Eating Disorders through health promotion and early intervention. This course is open to students in the following graduate programs: Social Work, Counselor Education, Marriage & Family Therapy, School Psychology, and Clinical Nutrition.

COUN 6566 Substance Use and the Family 3 Credits
Prerequisite(s): COUN 5350 or a basic understanding of the addictions field.
This course brings together substance use studies and family systems approach. 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 families with substance-use issues. 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. Cross-referenced as MFTH 6566.

COUN 6568 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.

COUN 6585 Introduction to Clinical Supervision 3 Credits
Prerequisite(s): COUN 6950.
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.

COUN 6840 Consultation and Collaboration for School Counselors 3 Credits
Prerequisite(s): COUN 5433, COUN 5531.
The purpose of this course is to introduce students to the process of collaboration, consultation, and intervention within the school counseling environment. Emphasis is placed on the school counselor's role in working with school staff, parents, and community members to promote the academic, career, and personal/social development of students.

COUN 6950 Counseling Practicum 3 Credits
Prerequisite(s): 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. Open only to matriculated students in Counselor Education.

COUN 6981 Clinical Mental Health Counseling Internship I 3 Credits
Prerequisite(s): COUN 6950.
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.

COUN 6982 Clinical Mental Health Counseling Internship II 3 Credits
Prerequisite(s): COUN 6981.
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. Site supervisors provide weekly individual site supervision. Internship II is the continuation and completion of requirements for the 600 clock hours, including 240 direct service hours. Candidates arrange their internships with the assistance of the clinical coordinator.

COUN 6982C Cont Clin Mntl Hlth Internship 1-3 Credits
Prerequisite(s): COUN 6981C.
This course is a continuation of COUN 6981C. 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.

COUN 6983 School Counseling Internship I 3 Credits
Prerequisite(s): COUN 6950.
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. Site supervisors conduct weekly supervision on site. Internship requirements include 700 clock hours over 2 semesters, including 240 direct service hours. Candidates make their internship arrangements with the assistance of the clinical coordinator.

COUN 6984 School Counseling Internship II 3 Credits
Prerequisite(s): COUN 6983.
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. Site supervisors conduct weekly supervision on site. Internship requirements include 700 clock hours over 2 semesters, including 240 direct service hours. Candidates make their internship arrangements with the assistance of the clinical coordinator. Available only to certified teachers with 3 years of experience who are cross endorsing.

COUN 6985 School Counseling Internship for Teachers 6 Credits
Prerequisite(s): COUN 6950.
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. Site supervisors conduct weekly supervision on site. Internship requirements include 600 clock hours over 5 months (1 semester), including 240 direct service hours. Candidates make their internship arrangements with the assistance of the clinical coordinator. Available only to certified teachers with 3 years of experience who are cross endorsing.

COUN 6986 Clinical Mental Health Counseling Internship Continuing 0-3 Credits
Prerequisite(s): COUN 6982.
This course is a continuation of COUN 6982. 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.

COUN 6987 School Counseling Internship Continuing 0-3 Credits
Prerequisite(s): COUN 6984 or 6985.
This course is a continuation of COUN 6984 or COUN 6985. 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.

COUN 6990 Independent Study 3-6 Credits
Candidates undertake individual projects in consultation with a faculty member, based on proposals submitted one semester in advance.

COUN 6999C Comprehensive Exam in Clinical Mental Health Counseling 0 Credits
The Counselor Preparation Comprehensive Exam (CPCE) is a standardized multiple-choice exam with 120 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 their penultimate semester.

COUN 6999S Comprehensive Exam in School Counseling 0 Credits
The Counselor Preparation Comprehensive Exam (CPCE) is a standardized multiple-choice exam with 120 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 their penultimate semester.

Digital Journalism (DJOU)

DJOU 1860 News Media and Society 3 Credits
Course Tags: Digital Journalism Elective
In this course, we will explore “news” as a social artifact, and the news media as social institutions from historical and international perspectives. We will study both professional news stories and scholarly research on the news media to understand how the news media defines and molds political and social conversations and trends, and how the make-up of society and the newsroom itself can feed into the process of news production. We will also examine how news production, with ever-progressing media technologies, interacts with other social institutions to maintain or harm the ideal of a democratic society.

DJOU 1870 News Writing I 3 Credits
Course Tags: Sports Media Elective
Prerequisite(s): ENGL 1001.
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. Previously ENGL 1870.

DJOU 1872 Introduction to Sports Writing 3 Credits
Prerequisite(s): ENGL 1001.
Sports writing is one of the things keeping local media alive. For every story on ESPN.com or The Athletic that one sees about a professional sports contest, there were likely thousands published on smaller platforms about local high school football, small Division I basketball, or even middle school soccer. In this course, students will learn the basics for covering sports primarily for sports websites and local and regional newspapers. They will also study the evolution of the daily sports reporter, from how it originated in the 1900s to how and why it has changed significantly in the last decade alone. Previously ENGL 1872.

DJOU 2370 News Writing II: Digital Design 3 Credits
Course Tags: Sports Media Elective
Prerequisite(s): ENGL 1870.
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. Previously ENGL 2382.

DJOU 2380 Journalism Editing and Design 3 Credits
Course Tags: Digital Journalism Elective
Editing skills are in high demand in today's journalism job market both for traditional and online sources of information. This intermediate level course emphasizes conciseness, precision, accuracy, style, and balance in writing and editing. The course includes researching and fact-checking, basic layout and design, headline and caption writing, and online editing. Previously ENGL 2380.

DJOU 2382 The Power of Podcasting 3 Credits
Course Tags: Digital Journalism Elective, Sports Media Elective
Prerequisite(s): ENGL 1001.
This course focuses on the power of the heard word, of audio storytelling. In this course, we will listen to the best podcasts available, and study them to find out what makes them so effective. We'll try to understand why we care so much about the people in the stories that are told, and then we will attempt to do our own audio storytelling. By the end of the semester, we will have created our very own multi-episode podcast that aims to do the same things that "This American Life," "Radio Lab," "Serial," and others do: hook listeners. Previously ENGL 2382.

DJOU 2384 Media Law and Ethics 3 Credits
Course Tags: Digital Journalism Ethics Component
Prerequisite(s): DJOU 1870.
This course is an introduction to news media related law, policy, and ethical issues. It surveys how the U.S. constitutional law impacts media practices from both historical and contemporary perspectives. Some key topics include the First Amendment, privacy, intellectual property, commercial speech, privacy, and open access. The course also examines how traditional journalistic ethics (fairness, objectivity, responsibility, and credibility) intersect, or don't intersect, with the law. Students will discuss new legislative and ethical issues raised by technological innovations and socioeconomic shifts. Previously ENGL 2384.

DJOU 3320 Writing the Feature Story 3 Credits
Course Tags: Digital Journalism Elective, Sports Media Elective
Prerequisite(s): ENGL 1870.
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. Previously ENGL 3320.

DJOU 3330 Big Data Storytelling 3 Credits
Prerequisite(s): ENGL 1870.
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. Previously ENGL 3330.

DJOU 3340 Photojournalism 3 Credits
Course Tags: Digital Journalism Elective, Sports Media Elective
Prerequisite(s): ENGL 1870.
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. Previously ENGL 3340.

DJOU 3350 Issues in News Writing 3 Credits
Course Tags: Digital Journalism Elective
Prerequisite(s): ENGL 1870.
This intermediate course will focus on a different dimension of news writing each semester. Guest speakers will help students develop an ethical decision-making approach to journalism and deepen their understanding of the role of the press as a government watchdog. Students may take this course twice under different topics. Previously ENGL 3350.

DJOU 3370 Sports Journalism 3 Credits
Course Tags: Digital Journalism Elective
This course instructs students in the skills necessary to be a member of the ever-growing 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. Previously ENGL 3370.

DJOU 4951 Journalism Practicum 3 Credits
Course Tags: Digital Journalism Capstone Course, Digital Journalism Elective, Sports Media Elective
Prerequisite(s): ENGL 1870, junior standing, one semester on Mirror.
Students apply the material learned in class by working as a reporter, photographer or editor with the campus newspaper, The Mirror. The course is designed for Mirror editors or students with equivalent experience. Previously ENGL 4951.

Economics (ECON)

ECON 1011 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.

ECON 1012 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.

ECON 2112 Economic Aspects of Current Social Problems 3 Credits
Course Tags: Business Elective, Educational Studies Cognate
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.

ECON 2114 Economics of Race, Class, and Gender in the American Workplace 3 Credits
Course Tags: Educational Studies Cognate, 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.

ECON 2120 Introduction to Environmental Economics 3 Credits
Course Tags: Asian Studies Elective, Educational Studies Cognate, Environmental Studies Elective, Environmental Studies Major Elective, Environmental Studies: Social Science, International Studies Elective, Latinx, Latin American and Caribbean Studies Minor Elective, Public Administration Environment Policy
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.

ECON 2140 Health Economics 3 Credits
Course Tags: Educational Studies Cognate, Health Studies: Social Science, Humanitarian Action Minor Context Course, Peace and Justice Studies, Public Administration Public Health
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.

ECON 2150 Media Economics 3 Credits
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.

ECON 2152 Economics of Sport 3 Credits
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.

ECON 2154 Contemporary Issues Affecting the Global Business Environment 3 Credits
Course Tags: International Studies Elective
Prerequisite(s): ECON 1011, ECON 1012; or INST 1053.
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 now 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. Previously ECON 1054.

ECON 2185 Regional Economic Development 3 Credits
Course Tags: Educational Studies Cognate, Public Administration City Government, Public Administration Economic Development
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.

ECON 2980 Internship 1 Credit
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 be matriculated in the Dolan School of Business and have a GPA of 2.50 or higher. Enrollment by permission only.

ECON 3204 Intermediate Microeconomic Theory 3 Credits
Prerequisite(s): ECON 1011.
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.

ECON 3205 Intermediate Macroeconomic Theory 3 Credits
Prerequisite(s): ECON 1012.
This course, which includes computer applications, analyzes the determination of national income and output; fiscal and monetary tools; and growth, inflation, and stabilization policies.

ECON 3210 Money and Banking 3 Credits
Prerequisite(s): ECON 1012.
This course covers the commercial banking industry, the money market, Federal Reserve operations and policy making, and monetary theory.

ECON 3215 Innovation and Economic Growth 3 Credits
Prerequisite(s): ECON 1011 and ECON 1012.
This course discusses the determinants of long-term economic growth, emphasizing modern growth theory and topics of current macroeconomic relevance. We will address issues such as: What is the role of technology and innovation in driving the growth process? How does finance contribute to it? What are the current trends in the automation of economic activity, and how do they interact with income inequality? Is sustained growth possible on a finite planet, and how? Previously ECON 4305.

ECON 3224 Labor Economics and Labor Relations 3 Credits
Course Tags: Public Administration City Government
Prerequisite(s): ECON 1011, ECON 1012.
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.

ECON 3225 Applied Environmental Economics 3 Credits
Course Tags: Environmental Studies Elective, Environmental Studies Major Elective, Environmental Studies: Social Science, Public Administration Environment Policy
Prerequisite(s): ECON 1011 or ECON 2120.
This in-depth examination of the economic tools used in environmental economics and policy-making builds on basic environmental economic concepts and provides the opportunity to put those concepts into practice. The course explores common externalities and market failures in the United States and analyzes governmental policies used to control them.

ECON 3230 Comparative Economic Systems 3 Credits
Course Tags: International Studies Elective, Magis Core: Interdisciplinary
Prerequisite(s): ECON 1011 or ECON 1012.
Is communism dead? Is capitalism the only real economic system left? 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.

ECON 3231 International Trade 3 Credits
Course Tags: International Studies Elective
Prerequisite(s): ECON 1011.
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.

ECON 3233 International Economic Policy and Finance 3 Credits
Course Tags: International Studies Elective
Prerequisite(s): ECON 1012.
This course explores international financial relations. Topics include the international monetary system, exchange rate systems, balance of payments adjustment mechanisms, and changes in international finance relations. It treats theoretical concepts and considers governmental policy approaches to the various problems.

ECON 3235 Economic Development 3 Credits
Course Tags: Asian Studies Elective, Diversity, Equality, and Inclusion Minor Elective
Prerequisite(s): ECON 1011 or ECON 1012 or INTL 1053.
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.

ECON 3236 Income Inequality 3 Credits
Prerequisite(s): ECON 1011 or ECON 1012 or INTL 1053.
This course examines income inequality in the US and other high-income countries within a global context. Students will learn to measure inequality, to examine trends across time and geography, and to consider factors affecting income mobility. Topics include globalization and technological change, minimum wage, unionization, universal basic income, migration policy, systemic racism, welfare reform, tax policy, education policy, and criminal justice reform.

ECON 3237 Fair Trade and Microfinance 3 Credits
Course Tags: Humanitarian Action Minor Skills/Method Course, International Studies Elective, Latinx, Latin American and Caribbean Studies Minor Elective, Magis Core: Interdisciplinary
Prerequisite(s): ECON 1011, ECON 1012.
Fair trade and microfinance are two very important trends aiding the development of poor countries around the world. In this project-based course, will learn about the challenges of producing and distributing fair trade products, bringing them to market, and accessing funding to pay for expanding one's business or materials to increase production.

ECON 3244 Behavioral Economics 3 Credits
Prerequisite(s): ECON 1011, ECON 1012.
This course is an introduction to behavioral economics: incorporating insights from psychology into economics. Though behavioral economics is a relatively new field, it has already led to one Nobel Prize and is beginning to have a huge impact in finance, marketing, management, industrial organization, psychology, political science, and philosophy. In this course, we will study how behavioral economists explain a range of psychological and social phenomena, and how those explanations differ from standard economic ones. Likely topics include drug use, sex, crime, gambling, over-eating, overconfidence and procrastination. In particular, we will study various ways in which (apparent) irrationality influences people's judgment and decision-making.

ECON 3250 Industrial Organization and Competitive Strategy 3 Credits
Course Tags: Business Elective
Prerequisite(s): ECON 1011.
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.

ECON 3252 Urban Economics 3 Credits
Course Tags: Public Administration Economic Development
Prerequisite(s): ECON 1011, ECON 1012.
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.

ECON 3270 Engineering Economics 3 Credits
Prerequisite(s): ECON 1011.
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, financial, 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 they need to plan, design, and finance engineering projects.

ECON 3275 Managerial Economics 3 Credits
Course Tags: Business Elective
Prerequisite(s): ECON 1011.
This course prepares economics and business students to apply microeconomic, financial, 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.

ECON 3276 Public Finance 3 Credits
Course Tags: Public Administration Economic Development
Prerequisite(s): ECON 1011, ECON 1012.
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.

ECON 3278 Economic Statistics 3 Credits
Course Tags: Environmental Studies: Applied Professional Skills
Prerequisite(s): ECON 1011, ECON 1012.
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.

ECON 3278L Economic Statistics Lab 1 Credit
Corequisite(s): ECON 3278.
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.

ECON 3290 Mathematical Economics 3 Credits
Course Tags: Business Elective
Prerequisite(s): ECON 1011, ECON 1012, and any of the following: MATH 1016, MATH 1121, MATH 1122, MATH 1123, MATH 1141, MATH 1142, MATH 1171, MATH 1172.
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.

ECON 3980 Internship 3 Credits
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 be matriculated in the Dolan School of Business and have a GPA of at least 2.50. Enrollment by permission only.

ECON 4310 Fed Challenge 3 Credits
In this course, students participate in the College Fed Challenge, organized by the Federal Reserve. Students cooperate in preparing a presentation that includes the following: an analysis of current macroeconomic conditions; a forecast of near-term economic and financial conditions relevant to the formulation of monetary policy, with a focus on risks that should receive special attention; a monetary policy recommendation. If students qualify for the following stage, they will participate in a questions and answers session with Federal Reserve judges. Enrollment by permission only.

ECON 4320 Financial Markets and Institutions 3 Credits
Prerequisite(s): ECON 3210.
Topics include capital markets, financial intermediaries, equities, bonds, options, futures, security analysis, portfolio theory, and the efficient markets hypothesis. Students manage a hypothetical portfolio and use a computer model.

ECON 4380 Econometrics 3 Credits
Course Tags: Magis Core: Writing in the Discipline
Prerequisite(s): ECON 1011, ECON 1012; ECON 3278 or MATH 2217.
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.

ECON 4391 Microeconomics Seminar 3 Credits
Prerequisite(s): ECON 3204.
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.

ECON 4392 Macroeconomics Seminar 3 Credits
Prerequisite(s):ECON 3205.
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.

ECON 4980 Internship 1-4 Credits
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.

ECON 4990 Independent Study 1-3 Credits
For economic majors only, this course is open to seniors by invitation or mutual agreement with the instructor.

ECON 5380 Econometrics 3 Credits
Prerequisite(s): ECON 5275, MATH 5417.
This course provides students the analytical tools necessary to test theories of microeconomic behavior through the lens of mathematical and statistical methods. These econometric methods have practical applications for any field where there is data recording events.
The course further considers useful techniques and limitations of econometric analysis as well as practical applications of methods useful for bypassing data problems in measuring quantitative economic relationships. Undergraduate equivalent: ECON 4380.

ECON 5400 Principles of Economics for Business 3 Credits
This course examines the fundamentals of economic analysis from both the micro and macro perspectives; from individual consumer behavior to the choices firms make, as well as framing the aggregate economy and indicators that measure global economic activity. The basics of supply and demand, market structures, international trade, fiscal, and monetary policy are covered. A case study approach is utilized to facilitate discussion of real world examples of economic decision making in action.

ECON 5410 Principles of Microeconomics 1.5 Credits
This course is designed to provide an introduction to the underlying concepts and theories of microeconomics. Students will learn ideas and methodologies that help them to understand how markets behave, and how they are impacted by local, national, and international events. They will explore the behavior of consumers and producers in markets for goods and services, as well as global economic structures. They will assess the outcomes of market activity, and explore alternative methods of allocating resources when markets are determined to have failed.

ECON 5415 Statistics for Business 1.5 Credits
Statistics is defined as a branch of mathematics dealing with the collection, analysis, interpretation, and presentation of masses of numerical data. This course will teach students the fundamentals of statistical analysis with an eye towards economic and business applications. Students will also learn about the limitations of statistics, and how to properly apply principles and present analytical results.

ECON 6275 Managerial Economics and Firm Decision-making 3 Credits
This course will put mathematical, finance, and statistical tools to work to solve firm-level, applied microeconomic problems. The objective of the course is to build a set of strategies that help guide managerial decision-making through case studies and problem-solving exercises. The central point is that good business decisions depend on vast amounts of information that is provided to decision-makers by skilled professionals from a wide variety of disciplines. The tools developed in this course will help students to do this work in a sophisticated way.

ECON 6320 Macroeconomics for Business Leaders 3 Credits
This course endows current and future business leaders with the knowledge needed to understand the macroeconomic environment they inhabit. It first illustrates the indicators used to analyze trends in economic activity, inflation, and labor market dynamics. The topics discussed include the business cycle, monetary and fiscal policy, the future of long-run economic growth, and income differences across countries. Case studies focus on how to respond, as a business, in a changing macroeconomic environment.

ECON 6321 Cost Benefit Analysis 3 Credits
This course is a practical introduction to Cost-Benefit Analysis (CBA), as a quantitative monetary assessment method that can aid in effective decision-making. The course introduces students to the principles and techniques of preparing a CBA, including microeconomic foundations, valuation methods, discounting, the impact of risk and uncertainty, and distributional consequences. The course includes applications of CBA to a wide range of business decisions and public policy issues (e.g. public, development, health, and environmental projects).

ECON 6323 International Economics 3 Credits
The objective of this course is to provide a graduate level analysis of modern international trade theory, trade policy, international finance and international economics. The course material is complemented with cases from the Harvard Business Review to link theory with real-world applications. Course topics cover concepts related to the benefits and consequences of international trade and globalization, the global economic and financial system, international capital flows, exchange rate determination, and foreign exchange markets.

ECON 6410 Public Finance and Budgeting 3 Credits
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. Crosslisted with PUAD 5410.

ECON 6430 Economics of the Nonprofit Sector 3 Credits
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. Crosslisted with PUAD 5430.

ECON 6455 Healthcare Management 3 Credits
This course covers the management and financial aspects of healthcare provision in the United States. The transitions that are underway in the market that have influenced the manner in which healthcare is provided will be examined. The course will also discuss the rising cost of treatment and changes in the how services are provided. Students will examine the structure of management within various healthcare organizations, hospitals, networks, and small providers, and how that influences quality of care. The final part of the course will examine the financial nature of various organizational forms within the medical industry. Crosslisted with PUAD 5455.

ECON 6560 Global Financial Markets and Institutions 3 Credits
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. Crosslisted with FNCE 6560.

ECON 6602 Healthcare Economics 3 Credits
This course begins by applying microeconomic theory to the health sector of the U.S. economy with a focus on financial incentives throughout the healthcare system. Topics include the demand for healthcare and health insurance, quality improvement, managed care and the role of government. The U.S. experience is compared to healthcare systems in other countries. Evidence-based skills include cost analysis and business plan and budget development. Crosslisted with NURS 7602.

ECON 6801 Econometrics: Regression Analysis 3 Credits
Prerequisite(s): DATA 5400 or equivalent.
This course provides students the tools necessary to apply statistical methods to data in order to test economic theories, to inform government and private policy makers, and to instruct businesses on consumer behavior, pricing considerations, and cost considerations. In this course we will learn how to measure relationships between economic variables using rigorous econometric techniques. This includes understanding the purpose and methods of ordinary least squares (OLS) regression for cross-sectional and panel data for continuous data, as well as learning models for discrete choice data. We will learn the basic theory and practical means of performing these regressions as well as the methods of statistical inference for hypothesis testing, and students will apply this knowledge to datasets throughout the semester.

ECON 6802 Applied Time Series Analysis and Economic Forecasting 3 Credits
Prerequisite(s): DATA 5400 or equivalent (familiarity with linear regression).
This course provides students with the analytical tools necessary to analyze time series data in order to examine past trends and to forecast future ones. Students will learn practical time series forecasting techniques with particular emphasis on the ARIMA method and conditional volatility (ARCH) models and they will perform a variety of data analyses on the computer using R/Rstudio. These methods are extensively employed in economic, financial and business forecasts and can be used for various purposes such as stock market analysis, economic forecasting, risk assessment, budgetary analysis, Census analysis, yield projection, and sales forecasting. To gain a deeper understanding of how the methods work, their theoretical underpinnings will be discussed to some extent, however, the course is mainly concerned with the applications of these techniques in forecasting economic time series.

Education (EDUC)

EDUC 2201 Explorations in Education 3 Credits
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.

EDUC 2329 Philosophy of Education: An Introduction 3 Credits
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.

EDUC 2341 Culturally Responsive Teacher 3 Credits
In this course, students will gain a deeper understanding of the knowledge, skills, and dispositions necessary to teach students from varied racial, cultural, and ethnic backgrounds. Students will examine their own assumptions about social identity and its influence on the teaching and learning process. Additionally, they will apply culturally responsive and sustaining strategies that promote high standards and inclusive learning environments.

EDUC 3241 Educational Psychology 3 Credits
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.

EDUC 3350 Special 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 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.

EDUC 4405 Contexts of Education in the Primary Grades 3 Credits
Based on current theory and practice in multicultural education, learning theory, child development, and classroom 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.

EDUC 4431 Extending Literacy in the Elementary School: Grades 3-6 3 Credits
Prerequisite(s): EDUC 4437.
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.

EDUC 4437 Developmental Literacy in 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.

EDUC 4447 Learning Mathematics in Elementary School 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.

EDUC 4455 The Literate Learner: Developmental Reading in Middle and Secondary School Grades 5-12 3 Credits
In this course, designed for new and experienced middle and high school educators, candidates explore and use cutting edge theory and best practices in literacy research to support powerful student learning across curricular area, with an emphasis on reading comprehension at the secondary level. Candidates learn a repertoire of research-based strategies and tools to help diverse learners make meaning from a variety of texts in their subject area, including non-print and media texts. Areas explored include questioning techniques, concept development, study strategies, and assessment. Candidates will infuse critical and strategic instructional strategies for teaching reading and communication into content area curriculum. Candidates not currently teaching will be expected to work with a teacher in a high needs school for 25 hours in order to complete the requirements for the course.

EDUC 4497 Teaching Science and Social Studies in the Elementary Classroom 3 Credits
This course includes a comprehensive study of the principles, methods, and materials necessary for teaching science and social studies at the elementary level. Candidates explore effective elements of instruction as they relate to practical applications in the classroom. The course addresses teaching science and social studies through readings, active participation in class activities, lesson/unit plan design and micro-teaching, class discussions, and individual reflections. Guided by current research and practice, candidates in this course design curricula for the elementary grades that develop content knowledge, inquiry skills, critical thinking, problem solving, social responsibility, and technological competence. This course includes a required 10-hour field component.

EDUC 4499 Research for Action and Advocacy in School and Community Settings 3 Credits
This course is designed for pre-service teachers, to learn action research methodologies by engaging in authentic action research projects in schools and/or community settings. Through critical self-reflection, discussions, and review of relevant literature, candidates in this course gain knowledge and competence in designing and implementing socially responsible research through advocacy projects.

EDUC 4565 Evidence-Based Strategies in Inclusive Classroom 3 Credits
Prerequisite(s): EDUC 3350.
This course builds on the foundational knowledge about exceptional learners examined during EDUC 3350 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.

EDUC 4581 Directed Observation and Supervised Student Teaching: Secondary Education 6 Credits
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.

EDUC 4583 Elementary Student Teaching: Immersion in a Community of Practice 6 Credits
Corequisite(s): EDUC 4584.
Prerequisite(s): EDUC 4447 and EDUC 4497.
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. Restrictions: Curriculum and Instruction Majors ONLY.

EDUC 4584 Reflective Practice Seminar: Elementary Education 3 Credits
Corequisite(s): EDUC 4583.
Prerequisite(s): EDUC 4447 and EDUC 4497.
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. Restrictions: Curriculum and Instruction Majors ONLY.

EDUC 4598 edTPA Portfolio 0 Credits
Prerequisite(s): EDUC 2201, EDUC 3350, SPED 4410, SPED 4411, SPED 4413, SPED 4417.
This course provides students with strategies for the development of their edTPA portfolio. It is taken in conjunction with the following student teaching and DSAP seminars: EDUC 4584, EDUC 4589, EDUC 4591, EDUC 4592, EDUC 4593, EDUC 4594, SPED 4954, TSLA 4582.

EDUC 5405 Contexts of Education in the Primary Grades 3 Credits
Based on current theory and practice in multicultural education, learning theory, child development, and classroom 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.

EDUC 5410 Literature for Young Adults 3 Credits
Course Tags: Educational Studies Cognate, 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.

EDUC 5411 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.

EDUC 5417 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.

EDUC 5429 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.

EDUC 5431 Extending Literacy in the Elementary School: Grades 3-6 3 Credits
Prerequisite(s): EDUC 5437.
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.

EDUC 5437 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.

EDUC 5441 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 TSLA 5441.

EDUC 5442 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.

EDUC 5447 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.

EDUC 5455 The Literate Learner: Developmental Reading in Middle and Secondary Schools, Grades 5-12 3 Credits
In this course, designed for new and experienced middle and high school educators, candidates explore and use cutting edge theory and best practices in literacy research to support powerful student learning across curricular area, with an emphasis on reading comprehension at the secondary level. Candidates learn a repertoire of research-based strategies and tools to help diverse learners make meaning from a variety of texts in their subject area, including non-print and media texts. Areas explored include questioning techniques, concept development, study strategies, and assessment. Candidates will infuse critical and strategic instructional strategies for teaching reading and communication into content area curriculum. Candidates not currently teaching will be expected to work with a teacher in a high needs school for 25 hours in order to complete the requirements for the course.

EDUC 5462 Science Methods 3 Credits
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.

EDUC 5463 World Language Methods 3 Credits
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.

EDUC 5464 Mathematics Methods 3 Credits
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.

EDUC 5466 English Methods 3 Credits
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.

EDUC 5468 Social Studies/History Methods 3 Credits
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.

EDUC 5497 Teaching Science and Social Studies in the Elementary Classroom 3 Credits
This course includes a comprehensive study of the principles, methods, and materials necessary for teaching science and social studies at the elementary level. Candidates explore effective elements of instruction as they relate to practical applications in the classroom. The course addresses teaching science and social studies through readings, active participation in class activities, lesson/unit plan design and micro-teaching, class discussions, and individual reflections. Guided by current research and practice, candidates in this course design curricula for the elementary grades that develop content knowledge, inquiry skills, critical thinking, problem solving, social responsibility, and technological competence. This course includes a required 10-hour field component.

EDUC 5581 Directed Observation and Supervised Student Teaching: Secondary Education 6 Credits
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.

EDUC 5589 Supervised Student Teaching/DSAP with Seminar: English 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 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.

EDUC 5591 Supervised Student Teaching/DSAP with Seminar: Mathematics 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 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.

EDUC 5592 Supervised Student Teaching/DSAP with Seminar: Science 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 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.

EDUC 5593 Supervised Student Teaching/DSAP with Seminar: World Languages 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.

EDUC 5594 Supervised Student Teaching/DSAP with Seminar: Social Studies/History 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.

EDUC 5900 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.

EDUC 5981 K-12 Teaching Internship Seminar for Initial Certification Candidates 1 Credit
Prerequisite(s): Matriculated status in an initial educator certification MA or SYC program in the School of Education and Human Development.
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.

EDUC 6501 Practicum for Literacy Teacher Consultants 2-3 Credits
Prerequisite(s): EDUC 6561.
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.

EDUC 6512 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.

EDUC 6515 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.

EDUC 6534 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 with PSYG 6534.

EDUC 6545 Developing Integrated Curriculum for Elementary Students: Inquiry and Action 3 Credits
Prerequisite(s): At least two courses from EDUC 5437, EDUC 5447, EDUC 5497.
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.

EDUC 6552 Research for Action and Advocacy in School and Community Settings 3 Credits
This course is designed for pre-service and certified teachers, community leaders, and professionals from allied fields to learn action research methodologies by engaging in authentic action research projects in schools and/or community settings. Through critical self-reflection, discussions, and review of relevant literature, candidates in this course gain knowledge and competence in designing and implementing socially responsible research through advocacy projects.

EDUC 6561 Summer Institute in the Teaching of Writing 0-4 Credits
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 encourage to apply for the practicum following the institute.

EDUC 6572 Guided Research in Science 3 Credits
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.

EDUC 6573 Instructional Issues in Teaching Science 3 Credits
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.

EDUC 6579 Directed Observation for Secondary DSAP Candidates: Part I 3 Credits
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 by permission only.

EDUC 6580 Directed Observation for Secondary DSAP Candidates: Part II 3 Credits
Prerequisite(s): EDUC 6579; 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.

EDUC 6581 Directed Observation and Supervised Student Teaching: Secondary Education 3-6 Credits
Prerequisite(s): 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.

EDUC 6583 Elementary Student Teaching: Immersion in a Community of Practice 3-6 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.

EDUC 6584 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.

EDUC 6589 English 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 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.

EDUC 6591 Mathematics 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 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.

EDUC 6592 Science 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 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.

EDUC 6593 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.

EDUC 6594 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.

EDUC 6598 edTPA Portfolio 0 Credits
Fee: $300 SEHD edTPA Fee
Prerequisite(s): Completion of all certification coursework.
This course provides students with strategies for the development of their edTPA portfolio. It is taken in conjunction with the following student teaching and DSAP seminars: EDUC 6584, EDUC 6589, EDUC 6591, EDUC 6592, EDUC 6593, EDUC 6594, SPED 6954, TSLA 6582.

EDUC 6990 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.

EDUC 6999 Capstone: Educating for Social Responsibility and Civic Engagement 3 Credits
Prerequisite(s): EDUC 4499 or EDUC 6552.
Drawing on contemporary educational theory, best practices, and Jesuit education traditions, this capstone seminar builds upon previous courses and culminates integrative experiences from previous classes for approved candidates in the MA in Elementary Education, MA in Secondary Education, and MA in Teaching and Foundations programs. As participants in a community of learners, candidates will demonstrate their capacities as reflective scholar-practitioners who synthesize program learning to produce an Integrative Master's Project that promotes social responsibility in their work with schools, communities, and families.

Educational Leadership (EDDL)

EDDL 6051 Administrative Leadership I 3 Credits
This course examines administrator leadership in education related to organizational systems at the district and school levels, including personnel hiring, budgeting, school climate, and school safety. These systems are approached as vehicles for moving forward mission and vision within a district and school. Emphasis is placed on developing leader mindset such that a vision committed to equity and inclusion informs decision-making across these systems.

EDDL 6052 Administrative Leadership II 3 Credits
This course examines administrator leadership in education related to educator evaluation and supervision at the district and school levels. Topics include defining effective practice, goal-setting, observations, feedback, supervision, and professional learning for educators. Connections are emphasized between individual educator evaluation and building the collective capacity of a school and district, aligned to continuous improvement plans and leading to improved student learning outcomes for all students. Candidates also deepen understanding of the use of assessment data to inform supervision and evaluation and the continuous improvement of programs in a district and school.

EDDL 6501 Administrator Leadership 3 Credits
The internship is designed to support the intern's effort to translate theory into practice while developing and honing effective school leadership skills and dispositions. Key assessments are completed throughout the internship. The experiences embedded in each of the assessments are aligned with the NELP and CT Leadership Standards. To ensure a high-quality experience, interns are supported by a) a faculty member who serves as a leadership coach and b) a mentor principal, who leads an effective school focused on equity and excellence for all students.

EDDL 7005 Systems Approach to Innovation and Improvement 3 Credits
This course investigates a systems approach to school innovation and improvement, including the ways in which data are used to identify and investigate contextualized problems of practice. The course will address the processes involved in engaging in a continuous and context-driven cycle of classroom-based reform within an organizational context.

EDDL 7010 Framing and Critical Analysis of Problems of Practice 3 Credits
Prerequisite(s): EDDL 7005.
In this course, students draw on professional experience, knowledge, and skills to analyze and frame problems of practice. They collaborate with colleagues and key stakeholders to identify problems and data, and identify the gap between organizational goals and current performance.

EDDL 7015 Action Research for Educational Change I 3 Credits
This course introduces candidates to the historical and philosophical underpinnings of critical participatory action research (CPAR). Candidates will examine the strengths and limitations of using CPAR to promote equity in educational institutions. In addition, the frameworks and methods of qualitative and quantitative research will be discussed for candidates to design a CPAR pilot project to study their own institutions to create transformational change.

EDDL 7020 Action Research for Educational Change II 3 Credits
Prerequisite(s): EDDL 7015.
This course builds on the foundational knowledge and research methods from EDDL 7015. It engages students in the data collection and analysis processes in CPAR as well as writing and presenting reports to effect transformational change in educational institutions. Candidates will conduct a social action project, write a preliminary report, and participate in a poster session to prepare for their doctoral capstone projects.

EDDL 7035 Mission and Values Based Leadership 3 Credits
This foundational course is designed for students to use authoethnography, critical theory (e.g., critical race, queer, feminist, disability studies) and the principles of mission and values-based leadership as a lens to assess their leadership strengths and areas for improvement. This self-assessment will assist students in developing a leadership plan that outlines their personal mission and vision for their role and short-term and long-term goals for leadership development. Furthermore, students will engage in critical dialogue about critical theory, the principles of mission and values-based leadership and their relationship to the Jesuit mission to determine the benefits and challenges of application of each in their chosen context.

EDDL 7040 Power, Privilege, and Identity in Educational Leadership 3 Credits
This course examines the relationship between power, privilege, and identity in educational leadership. Specifically, it aims to help understand how power shapes educators' and learners' identities, that is, the ways and the degree to which these identities intersect to influence teachers' teaching practices and students' learning outcomes. This course goes further to unpack various facets of power and privileges, earned and unearned, examining how they can be used to enhance student learning and build communities, as well as the ways in which they have been utilized to perpetuate inequities in schools and society at large.

EDDL 7045 Moral and Ethical Decision Making 3 Credits
This course surveys current and common ethical dilemmas that arise in classrooms, schools, and school districts. Candidates will apply social justice and equity frameworks to analyze case studies from multiple perspectives with an open invitation to make ethical decisions that center the needs of young people and those who have been historically marginalized. Candidates will reflect on their own positionality within power structures and how their multiple identities might play a role in their decision making process and action-taking when facing ethical dilemmas inside and outside the classroom.

EDDL 7050 Leader as Collaborator and Relationship Builder 3 Credits
This course surveys the centrality of relationship building as the context for effective teacher leadership. It utilizes the evidence in compassion, connectedness, and vulnerability as a means to identify, diagnose, and collaboratively solve educational problems while preserving professional relationships in education. Candidates will engage in critical evaluations of both self and others when exploring educational issues, system dynamics, and communication effectiveness.

EDDL 7055 Leadership for Social Justice in Education 3 Credits
This foundational course is designed to expand students' knowledge of leadership for social justice in education. Multiple theoretical frameworks for educational leadership and social justice will be introduced over the course of the semester. Additionally, students will examine how each theory/model operationalizes social justice in education to understand how each may impact their particular context. These models will be applied to case studies to understand structures that support or impede leadership for social justice.

EDDL 7060 Organizational Change for Social Justice in Education 3 Credits
This course engages students in a range of theories and practices of organizational change and their application in K-12 educational contexts for social justice. Topics of focus include organizational structures, behavior patterns, and cultures; institutional assessment and change strategy and leadership and collaboration for personal, educational, and institutional change; and case studies of educational reform initiatives. Students will be expected to apply theoretical perspectives to organizational analysis of their institutional settings.

EDDL 7065 Contextualizing Legal and Policy Issues in Education 3 Credits
In this course, candidates examine legal issues relating to reforming elementary, secondary, and special education through an analysis of federal and state legislation and court cases. Candidates will identify important federal and state laws, regulations, and policies, and explore how legal precedents could be applied to different school, family, and community situations. This course will also examine the legal and moral aspects of educational leadership, including the historical evolution of major educational laws, ethical spheres of thought, current trends and school law, and critical thinking and problem-solving strategies. Laws, regulations, and judicial decisions relating to the education of students with special needs will be addressed, as well as methods of conflict resolution, mediation, ethical standards, and collaboration with families and other professionals in the school building. Candidates will be required to apply what they learn as they analyze real-life case scenarios while considering state and federal laws.

EDDL 7070 Creating a Culture for Continuous Improvement 3 Credits
This course is designed to introduce school principals, district staff, teachers, and other practitioners to a systems-based approach to promoting sustainable change. Candidates study the core principles of program evaluation and monitoring and continuous improvement, which include the following: (1) change takes time and involves a collective effort, (2) change is context-specific, and (3) focusing on a series of small changes, combined with ongoing evidence collection and review, can lead to large-scale change. In addition, candidates learn about and implement the Plan-Do-Study-Act cycle of continuous improvement to address a wide range of practice problems.

EDDL 7075 Advocacy for Equity and Access 3 Credits
This course emphasizes the belief that all students can and will reach proficiency, without exceptions or excuses, and that schools ought to be organized to advance the equitable learning of all students. This course encourages each participant, through reflective engagement on their specific educational context, to develop their understanding of advocacy leadership. Through this reflection, candidates will develop their ability to conduct equity audits to identify the multiple factors in a specific context that prevent equity and inclusion, develop a plan to address those factors, and develop skills needed to lead multiple stakeholders to effectively implement the plan and improve equity and inclusion for all students.

EDDL 7080 Leveraging Instructional Design for Equitable Outcomes 3 Credits
The base of optimal student learning starts with the instructional design process. Students in this course will become familiar with cognitive and learning theories, how to develop as well as lead the process of curriculum units that are embedded with strategies for equity to optimize learning for all.

EDDL 7085 Re-Imagining Technology for Social Action 3 Credits
If used correctly, technology can be an empowering tool in the educational space, but all too often it simply reinforces existing biases, economic inequities, and societal privileges. Additionally, its mere deployment is equated with progress and innovation. This course will examine the use of technology in education not merely as a tool for advancing learning outcomes, but in the context of the Jesuit principles: to speak to all people, no matter who they are and where they are in society, to not simply identify and analyze social problems but take action to address them, and to actively build communities and connections between individuals as we critically examine the world in which we all live and learn. In taking this approach, students will explore the ways that technology can be made to increase inclusivity, promote equity, break down barriers, and optimize learning, along with the ways in which it can actively inhibit them as well.

EDDL 7090 Communities of Inquiry: Dissertation in Practice I 3 Credits
Prerequisite(s): EDDL 7020.
In this course, doctoral candidates will propose and design their doctoral research project. Informed by and moving forward from their action research project designed and implemented in Action Research I and II, candidates will prepare and successfully defend a proposal for their doctoral research project in which they enact, facilitate, and critically examine their identified problem of practice. Candidates will design and complete all necessary preparations (IRB approval, informed consent of participants, measures, etc.) to implement the project.

EDDL 7095 Communities of Inquiry: Dissertation in Practice II 3 Credits
Prerequisite(s): EDDL 7090.
Under the guidance of a faculty mentor and in collaboration with fellow cohort members, candidates will engage in, analyze, draw conclusions, and disseminate findings of their research on an identified problem of practice. Throughout the seminar, candidates will document and share their work through analytic memos, data analysis, and in-class reflection and problem-solving.

EDDL 7100 Writing for Social Change 3 Credits
This course introduces students to the various genres of writing for social action. Students examine the writing methods, genres, and audiences of authors who effectively engage in writing to effect social transformation. Students will compose their own writing for social change to disseminate the findings of their dissertation research project.

EDDL 7105 Dissertation Advising 1 Credit
Prerequisite(s): EDDL 7090.
An assigned faculty advisor will provide mentoring and feedback throughout the program to support research and dissertation writing/preparation. Students who have completed coursework but not defended the dissertation will need to register for EDDL 7105 every semester until they have done so.

EDDL 7110 Contemporary Issues in Higher Education 3 Credits
In this doctoral seminar course, students critically examine timely issues in higher education, starting from the history of US hidden curriculum to gender, racial, linguistic, sexual, and economic [in] equities, and the role of spirituality in student learning. This course seeks to help doctoral candidates better grasp the relations between the systemic nature of these issues and the extent to which they affect people's lives in ways that often go unrecognized. To this end, it uses various teaching methods and strategies aiming to foster a community of involved citizens, who are invited to pause and critically reflect on contemporary issues in higher education and possible steps toward systemic change. (3 Credits)

EDDL 7115 Assessment, Data Literacy and Decision Making 3 Credits
Higher Education has entered a time of Big Data. Higher educational leaders must possess the skills and knowledge necessary to navigate a complex landscape while answering essential questions about what data is relevant, where to find/create data, how to interpret data, how data-based decision-making is inextricably linked to issues of equity and access, and how to use and share data. We use data for new program development, assessment of current programs, creating strategic plans at all levels, and advocating for equitable distribution of resources. Within higher education, every unit (e.g., institutional research, facilities, student life, registrar, marketing, etc.) is continually responsible for ensuring equity through organizational effectiveness and decision-making. Effective integration of data and assessment information will ensure evidence-based strategic planning for equity and access. (3 credits)

EDDL 7120 Legal and Policy Issues in Higher Education 3 Credits
This course is designed to familiarize students with the legal implications of situations that may arise in the university setting. Through this course students will learn to identify issues that will require legal analysis and legal guidance from counsel. The modern university is not only a place of learning, but also an employer, as well as a provider of housing, dining, and transportation. These responsibilities require knowledge of certain laws as reflected in an institution's policies. Understanding these laws are essential to maintaining compliance and promoting positive relations with stakeholders. These laws and concepts include: Title IX, Title VI, Title VII, ADA, Section 504, ADEA, NLRA, FLSA, ERISA, FERPA, the Higher Education Act, liability, negligence, due process, academic freedom, free speech, implications of IDEA and more. As administrative decisions are made with business judgment and risk tolerance considerations, and not just legal implication, this course seeks to foster awareness and critical thinking, rather than provide single answers on issues. This course is designed for higher education practitioners, not law students.

EDDL 7125 Moving from Strategy to Action 3 Credits
This course will focus on the ways that strategic planning can be effectively accomplished in higher education through an equity, diversity, inclusion, and justice lens - and then moved beyond senior-level conversations to organizing, implementation, and finally executing on clearly laid plans. The topics will move from conceptual to specific and include strategic planning, visioning, governance, and budget/resource management. (3 credits)

EDDL 7130 Student Development and Practices of Student Affairs Administration 3 Credits
This course examines fundamental principles of student learning development in addition to current and emerging social and academic trends in higher education and how they apply to practice in our student affairs work with students from an EDI-J lens. Student development theory is the foundation for student affairs practice and fostering a holistic approach to college student learning and development. Specific attention will be placed on providing higher educational access to marginalized populations. This course provides for the development of a personal philosophy of student affairs administration through exploration of trends, structures and theories that guide student affairs work. The class will use case studies to apply student learning development to current trends. (3 credits)

EDDL 7135 Teaching, Learning & Student Engagement 3 Credits
This course is intended for leaders and scholar-practitioners at all levels and in all professional positions in higher education who are concerned with teaching and learning, issues of equity and inclusion, and the institutional contexts that support holistic learning and promote equity. (3 credits)

Educational Technology (EDTC)

EDTC 4304 Imagining Libraries in the 21st Century 3 Credits
This course will focus on the ongoing transformation and re-orientation of public and academic libraries in an age of ubiquitous access to digital content. The role of the library will be examined from its mid-20th century position of largely storing paper-based materials and providing the professional services that allowed user to access those materials, to its evolving status as a service provider - offering everything from streaming videos and downloadable e-books to community events and craft- and technology-based maker spaces. The course will culminate with each student creating a digital vision of the library of the future.

EDTC 4305 Copyright, Censorship, and Information Control 3 Credits
This course will offer an in-depth examination of the larger question of who controls information. Beginning with a review of the concept and history of copyright laws as a means for assuring economic control, the course will then move into an analysis of censorship by schools, local communities, and national governments. A major portion of the course will also address the relatively new issue of information control effected by digital means - from the use of search engines and misinformation to influence public opinion to the tracking of individuals and the data harvesting that has become the primary economic driver of so many technology platforms.

EDTC 4312 Expanding Education through Informal Learning Environments 3 Credits
This course will examine the ways in which Informal Learning Environments (ILEs) are embedded in a wide range of the 21st century's social and entertainment activities - and how these experiences of these types can be leveraged to move learning outside of its traditionally conceived homes in schools and libraries. Among the ILEs discussed will be zoos and aquariums, museums, mobile games, streaming content, escape rooms, and more. The course will culminate with each student producing an example Informal Learning Environment module using the technologies of their own choice.

EDTC 4313 Online Training for Lifelong Learning 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 ages and types. Students will explore ways to effectively employ podcasts, screen captures, videos, and authoring software to create and support online learning, as well as how to consider relevant technological issues such as file types, bandwidth, policies, and mobile device access.

EDTC 4314 Literacies Across History and Cultures 3 Credits
This course will explore how humans have communicated their ideas across space and time – in essence, what does it mean to be what we now call "literate," why did literacy arise, and what purposes does it serve? Students will endeavor to define different modes of communication (or literacies) in an age of globalization and of digital information, and look at these "literacies" through various historical, social, and cultural perspectives.

EDTC 4315 Technologies for Building Online Learning Engagement 3 Credits
This course will be offered as can be arranged by faculty with a local museum, library, non-profit, or other institution. Students will spend their semester do in-depth studies of the specific type of organization of focus, and will then collaborate in with staff at the organization to learn how the education takes place there and to complete a project that will be used as part of the entity's educational offerings.

EDTC 4316 Informal Learning Environments (ILE) Practicum 3 Credits
This course will be offered as can be arranged by faculty with a local museum, library, non-profit, or other institution. Students will spend their semester do in-depth studies of the specific type of organization of focus, and will then collaborate in with staff at the organization to learn how the education takes place there and to complete a project that will be used as part of the entity's educational offerings.

EDTC 4317 AI in Teaching & Learning 3 Credits
This course will explore the current possibilities and serious challenges of generative AI for classroom teachers and other educators of all types. Topics covered will include understanding how generative AI operates from a technological standpoint; the role that generative AI can play in a variety of educational settings, from K-12 public schools to universities to informal learning environments ; and the development of appropriate policies and guidelines to support AI use. No previous experience with AI or computer programming is required.

EDTC 4401 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.

EDTC 5304 Imagining Libraries in the 21st Century 3 Credits
This course will focus on the ongoing transformation and re-orientation of public and academic libraries in an age of ubiquitous access to digital content. The role of the library will be examined from its mid-20th century position of largely storing paper-based materials and providing the professional services that allowed user to access those materials, to its evolving status as a service provider - offering everything from streaming videos and downloadable e-books to community events and craft- and technology-based maker spaces. The course will culminate with each student creating a digital vision of the library of the future.

EDTC 5305 Copyright, Censorship, and Information Control 3 Credits
This course will offer an in-depth examination of the larger question of who controls information. Beginning with a review of the concept and history of copyright laws as a means for assuring economic control, the course will then move into an analysis of censorship by schools, local communities, and national governments. A major portion of the course will also address the relatively new issue of information control effected by digital means - from the use of search engines and misinformation to influence public opinion to the tracking of individuals and the data harvesting that has become the primary economic driver of so many technology platforms.

EDTC 5312 Expanding Education through Informal Learning Environments 3 Credits
This course will examine the ways in which Informal Learning Environments (ILEs) are embedded in a wide range of the 21st century's social and entertainment activities - and how these experiences of these types can be leveraged to move learning outside of its traditionally conceived homes in schools and libraries. Among the ILEs discussed will be zoos and aquariums, museums, mobile games, streaming content, escape rooms, and more. The course will culminate with each student producing an example Informal Learning Environment module using the technologies of their own choice.

EDTC 5313 Online Training for Lifelong Learning 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 ages and types. Students will explore ways to effectively employ podcasts, screen captures, videos, and authoring software to create and support online learning, as well as how to consider relevant technological issues such as file types, bandwidth, policies, and mobile device access.

EDTC 5314 Literacies Across Hist. & Cult 3 Credits
This course will explore how humans have communicated their ideas across space and time – in essence, what does it mean to be what we now call "literate," why did literacy arise, and what purposes does it serve? Students will endeavor to define modes of communication (or literacies) in an age of globalization and of digital information, and look at these "literacies" through various historical, social, and cultural perspectives.

EDTC 5315 Technologies for Building Online Learning Engagement 3 Credits
Using modern, mobile-based tools to communicate and develop multimedia/interactive experiences can turn a passive, go-at-your-own-pace online course into a highly engaging community learning experience for students. This course will review a range of current technologies that can be applied to delivering content and interacting with students to create such courses. Tools such as SoftChalk, H5P, Microsoft Sway, Microsoft Teams, Slack, and others will be examined, with students completing a final project using one or more of the tools.

EDTC 5316 Informal Learning Environments (ILE) Practicum 3 Credits
This course will be offered as can be arranged by faculty with a local museum, library, non-profit, or other institution. Students will spend their semester do in-depth studies of the specific type of organization of focus, and will then collaborate in with staff at the organization to learn how the education takes place there and to complete a project that will be used as part of the entity's educational offerings.

EDTC 5317 AI in Teaching & Learning 3 Credits
This course will explore the current possibilities and serious challenges of generative AI for classroom teachers and other educators of all types. Topics covered will include understanding how generative AI operates from a technological standpoint; the role that generative AI can play in a variety of educational settings, from K-12 public schools to universities to informal learning environments; and the development of appropriate policies and guidelines to support AI use. No previous experience with AI or computer programming is required.

EDTC 5401 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.

EDTC 5403 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.

EDTC 5404 The School Library II 3 Credits
This course, a continuation of the material presented in EDTC 5403, 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.

EDTC 5405 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.

EDTC 5406 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.

EDTC 5409 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.

EDTC 5415 Informal Learning Environment (ILE) Practicum 3 Credits
This course will be offered as can be arranged by faculty with a local museum, library, non-profit, or other institution. Students will spend their semester do in-depth studies of the specific type of organization of focus, and will then collaborate in with staff at the organization to learn how the education takes place there and to complete a project that will be used as part of the entity's educational offerings.

EDTC 5430 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.

EDTC 5452 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.

EDTC 5459 Understanding the Whole Learner 3 Credits
Understanding the Whole Learner. As teaching and learning has moved, over the past half century, from a one-size-fits-all approach to something that is more individualized, instructional design has been compelled to look at individual learners' needs as well as at their backgrounds and cultural orientations. This course will examine the wide range of considerations that should be employed to successfully teach the Whole Learner, including such topics as inclusive/anti-racist pedagogy; creating equitable learning environments; pedagogy vs. andragogy; building supportive student relationships; Universal Design for Learning; and the Ignatian Pedagogical Paradigm (Context > Experience > Reflection > Action > Evaluation).

EDTC 5460 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.

EDTC 5463 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.

EDTC 5465 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.

EDTC 5469 Establishing Worldwide Learning Communities Through Technology 3 Credits
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.

EDTC 5470 Designing for Online Instruction 3 Credits
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.

EDTC 5471 Technologies for Building On-line Engagement 3 Credits
Using modern, mobile-based tools to communicate and develop Multimedia/interactive experiences can turn a passive, go-at-your-own-pace on-line course into a highly engaging community learning experience for students. This course will review a range of current technologies that can be applied to delivering content and interacting with students to create such courses. Tools such as SoftChalk, H5P, Microsoft Sway, Microsoft Teams, Slack, and others will be examined, with students completing a final project using one or more of the tools.

EDTC 5490 Achieving an Interdisciplinary Approach to Teaching Through Technology 3 Credits
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.

EDTC 5547 Planning and Managing the Instructional Design Process 3 Credits
Designing instruction requires expertise in pedagogy and technology, but just as important are the planning and project management skills that allow the work to happen smoothly and collaboratively. This course will begin with an examination of the methodologies that can be used to structure and develop courses - ADDIE, SAM, etc. - followed by an examination of standard planning techniques such as the use of wireframes and storyboards. This will conclude with the basic principles and practices of Project Management, including the use of collaboration technologies to facilitate communication and the overall development process.

EDTC 5900 Special Topics (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.

EDTC 5950 Practicum in Instructional Design 3 Credits
Candidates develop their individual, group, and consultation skills in this course through placement in an instructional design position, while receiving ongoing individual and group support. Participation requires audio recording at the practicum site for supervision and demonstration of professional competency.

EDTC 6501 Technology and Transformational Culture 3 Credits
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.

EDTC 6503 Research and Evaluation in K-12 Consultation and Leadership 3 Credits
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 RLDV 6503.

EDTC 6540 Creating and Curating Digital Content 3 Credits
While the explosion of both online educational resources and digital content creation tools has opened up a new world of possibilities for classroom teachers, few instructors have the time to do the exploration and collation necessary to truly take advantage of all the Internet has to offer. In this hands-on course, each student will be given the opportunity to assume the role of digital content developer for an actual university or K-12 course: working closely with an instructor to define and research course content, learning how to evaluate digital tools for presenting material across devices and platforms, and choosing the best options, be they aggregators, e-book creators, online portfolios, or other web tools, to produce, collate, and deliver the content required by the professor or teacher. The materials produced will subsequently be used in actual Fairfield University courses. This course is open only to students enrolled in the Educational Technology program.

EDTC 6541 21st Century Literacies in the Classroom 3 Credits
The term "literacy" used to be associated with the ability to read and write. How we interact with our environment is evolving as technology evolves. This has resulted in an expansion of the definition of literacy. Literacy now includes several facets: Information, Media, and Information and Communication Technologies (ICT). It is important for students to understand 21st century literacies and be able to use them as a guide in the global community that helped create the need for them. This course explores the concept of 21st century literacy and how these skills can be both taught to students and integrated into our teaching to support student learning.

EDTC 6545 Designing and Developing Training Programs 3 Credits
Designed for prospective training specialists, personnel generalists, school media specialists 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 tailoring of course content to candidate needs and working environments. Crosslisted with PSYC 6545.

EDTC 6546 Integrating the Arts and Technology in K-12 Teaching and Learning 3 Credits
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.

EDTC 6554 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.

EDTC 6594 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.

EDTC 6596 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.

EDTC 6990 Independent Study 3-6 Credits
Candidates complete individual study in educational technology with a faculty member after submitting a proposal for independent study.

EDTC 6999 Capstone Experience 3 Credits
Prerequisite(s): 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.

Electrical and Computer Engineering (ECEG)

ECEG 5260 Robots 3 Credits
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. Students will understand degrees of freedom of a robotic arm and their safety parameters through demonstration and use of Fanuc Robot. Service learning is an integral part of the course. All students will participate in mentoring of youth to put into practice the principles learned in class, and gain communication skills through community interaction. Particularly they will participate in mentoring to build small robots to accomplish different feats, for example obstacle avoidance by a mobile robot.

ECEG 5303 Industrial Automation 3 Credits
This course will give students an understanding of industrial automation concepts in the areas of process control, manufacturing, material handling, and others. Topics covered include sequential control, ladder logic, PLC systems and programming; industrial sensors; feedback control systems, PID and advanced control algorithms; distributed control systems, industrial networking, including network types and standards. Practical implementation of typical systems is discussed. The course will consist of lectures, case studies, and lab exercises. Advanced Topics are assigned. Undergraduate equivalent: ENGR 4303.

ECEG 5309 Biosensors 3 Credits
This course will provide an overview of biosensors, including their use in pharmaceutical research, diagnostic testing, and policing the environment. Topics include the fabrication, characterization, testing, and simulation of biosensors. The phenomenon of transducers, biosensor structure, sensor performance, and simulations utilizing molecular simulation software will also be covered.

ECEG 5311 Biomaterials 3 Credits
This course will cover the introductory level of understanding on the different types of biomaterials used in biomedical industry, their design and synthesis. Examples include implants, stents, catheters, smart polymer gels, bone grafts, and tissue scaffolds. Modern biology in biomedical engineering such as but not limited to protein adsorption, immuno-isolation, and regenerative medicine will be covered. Ethical issues in biomedical engineering will also be discussed. Current innovative research on nano-biotechnology that extends to 3D bio-matrix, advanced diagnostics, dental composites, sealants, and adhesives. Undergraduate equivalent: BIEG 4311.

ECEG 5314 Introduction to Molecular Modeling 3 Credits
This course will cover methodological and practical aspects of the application of system analysis and computational tools to biological and biomedical problems. It will cover computational modeling of biological macromolecules such as proteins, DNA, and synthetic self-assembling materials such as polymers, crystals, colloids, and amphiphiles. The course provides the resources to use Visual Molecular Dynamics (VMD) and Nanoscale Molecular Dynamics (NAMD) to solve computational problems related to protein interactions in case of diseases and protein folding. Undergraduate equivalent: BIEG 4314.

ECEG 5315 Nanoelectronics I 3 Credits
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. Undergraduate equivalent: ELEG 4315.

ECEG 5323 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.

ECEG 5325 Computer Graphics 3 Credits
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. Undergraduate equivalent: CPEG 4325.

ECEG 5331 Biomedical Signal Processing 3 Credits
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. Undergraduate equivalents: BIEG 3331, CPEG 3331.

ECEG 5332 Biomedical Imaging 3 Credits
Prerequisite(s): ECEG 5331.
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. Undergraduate equivalents: BIEG 4332, CPEG 4332.

ECEG 5333 Biomedical Visualization 3 Credits
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. Undergraduate equivalents: BIEG 4333, CPEG 4333.

ECEG 5334 Unmanned Aerial Vehicles: Design, Navigation, and Control 3 Credits
Prerequisite(s): ELEG 2213 , CPSC 1131 or ENGR 2145 or Equivalent.
This course provides an in-depth exploration of unmanned aerial vehicles (UAVs), focusing on their design, navigation, and control. Students will learn the fundamental principles of UAVs, how to design and build basic drones, and apply advanced control and sensor fusion techniques for effective navigation and stabilization. The course also covers the use of UAVs in various applications like photogrammetry and payload delivery, along with a thorough understanding of the regulatory and ethical issues surrounding drone operations. Undergraduate equivalent: ENGR 4334.

ECEG 5335 Microelectronics 3 Credits
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. Undergraduate equivalent: ELEG 4335.

ECEG 5336 Analog Electronics Design 3 Credits
Prerequisite(s): ELEG 3231, ELEG 3231L o r equivalent or permission from instructor.
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. Undergraduate equivalent: ELEG 4331.

ECEG 5346 Computer Systems Architecture 3 Credits
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. Undergraduate equivalent: CPEG 3346.

ECEG 5348 Embedded Microcontrollers 3 Credits
Corequisite(s): ECEG 5348L.
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. Undergraduate equivalent: ELEG 3348.

ECEG 5348L Embedded Microcontrollers Lab 1 Credit
Fee: $132 Electrical and Computer 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. Undergraduate equivalent: ELEG 3348L.

ECEG 5355 Sensor Design and Application 3 Credits
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. Undergraduate equivalent: ELEG 4355.

ECEG 5361 Green Power Generation 3 Credits
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. Undergraduate equivalent: ELEG 4361.

ECEG 5365 Internet of Things 3 Credits
This course introduces one or more of the possible hardware devices that support Internet of Things (IoT). The associated communication protocols, storage of data, and the distributed systems needed to support IoT applications will be discussed. Practical IoT device programming (Arduino and Raspberry Pi, STM 32, Azure Sphere devices), and technologies for sensing and collecting data, and utilizing them to design actuating mechanism or data analysis will be presented. Selected IoT protocol stacks (Zigbee, Bluetooth, WiFi) for networking and security enforcement will be presented. Cloud-based IoT platforms such as AWS, Azure will be discussed. Student class project will include development of an IoT application with practical sensor data collection and deployment on a cloud-based IoT service platform.

ECEG 5375 Bioelectronics 3 Credits
Bioelectronics have emerged as an exciting research area due to the integration of molecular biology with electronics to create fundamental devices. This course is intended for senior and graduate level engineering students. It will introduce fundamentals of bioelectronics through chemical, biochemical and biophysical concepts from the engineering perspective. It will further apply these concepts to the areas of electron transport through biological macromolecules, microfluidics, electrochemical techniques, DNA and neuron-based electronics, biomaterials and semiconductor-based bioelectronics.

ECEG 5377 Power Security and Reliability 3 Credits
Prerequisite(s): ECEG 5385.
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. Undergraduate equivalent: ELEG 4377.

ECEG 5378 Electromagnetic Compatibility 3 Credits
This course presents design techniques to minimize electromagnetic interference (EMI) from an electronic system 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. Undergraduate equivalent: ELEG 4378.

ECEG 5379 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. Undergraduate equivalent: ELEG 4379.

ECEG 5385 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. Undergraduate equivalent: ELEG 4385.

ECEG 5386 Fault Analysis in Power Systems 3 Credits
Prerequisite(s): ECEG 5385.
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. Undergraduate equivalent: ELEG 4386.

ECEG 5387 Instrumental Analysis in Biomedical Engineering 3 Credits
This course will give an overview on several important analytical tools for characterizing the nanomaterials that are functionally engineered towards biomedical applications. Quantification of mechanical, electrical, electronic and biological properties of the nanomaterials such as carbon nanotubes, metal nanoparticles, quantum dots, nanowires, polymeric nanoparticles and biomedical nanomaterials will be discussed. Fundamental principles of the associated instruments and the evaluation of the physical, chemical and microscopy methods for materials in nano-regime will be highlighted. Modern material science depends on the use of a set of analytical methods that are used normally in specialized laboratories. This course will help the students get familiar with the basics of such specialized methods, their range of applicability and reliability, especially when the materials under test are in sub-100nm dimensions.

ECEG 5405 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.

ECEG 5406 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.

ECEG 5407 Computational Genomics 3 Credits
This course will provide an overview of computational genomics. Students will obtain skill in analyzing genomic data and sequencing experiments. The focus will be on achieving proficiency in data management and processing based on popular file formats in genomic biology.

ECEG 5411 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.

ECEG 5415 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. Undergraduate equivalent: ENGR 4415. Crosslisted with MEEG 5415.

ECEG 5420 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.

ECEG 5457 Advanced Linear Systems 3 Credits
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.

ECEG 5460 Network Programming 3 Credits
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.

ECEG 5470 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.

ECEG 5480 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.

ECEG 5505 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.

ECEG 5508 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.

ECEG 5510L Product Design Lab 1 Credit
Fee: $132 Electrical and Computer Engineering Lab Fee
Prerequisite(s): ECEG 5405.
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.

ECEG 5520L System Design Lab 1 Credit
Fee: $132 Electrical and Computer Engineering Lab Fee
Corequisite(s): ECEG 5355.
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, non-linear servos, and computer analysis of nonlinear systems.

ECEG 5990 Independent Study 1-3 Credits
Graduate students pursue special topics, projects, and/or readings in selected areas. Students must meet with the instructor to discuss the proposed topic of study. Enrollment by departmental approval only

ECEG 6971 Thesis I 3 Credits
Prerequisite(s): ECEG 5420.
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.

ECEG 6972 Thesis II 3 Credits
Prerequisite(s): ECEG 6971.
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.

Electrical Engineering (ELEG)

ELEG 2213 Introduction to Electric Circuits 3 Credits
Prerequisite(s): MATH 1142, PHYS 1172, PHYS 1172L.
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.

ELEG 2213L Electric Circuits Lab 1 Credit
Fee: $132 Electrical and Computer Engineering Lab Fee
Corequisite(s): ELEG 2213.
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.

ELEG 2221 Frequency Domain Circuit Analysis 3 Credits
Prerequisite(s): ELEG 2213, MATH 2243.
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.

ELEG 3231 Introduction to Electronics Circuits and Devices 3 Credits
Prerequisite(s): ELEG 2213.
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.

ELEG 3231L Electronics Circuits Lab 1 Credit
Fee: $132 Electrical and Computer Engineering Lab Fee
Corequisite(s): ELEG 3231.
Students build and test circuits using diodes, bipolar junction transistors, and MOSFETs. They use the principles developed in ELEG 3231 to analyze, build, and test amplifier and oscillator circuits.

ELEG 3301 Signal and Systems I 3 Credits
Prerequisite(s): ELEG 2221 or MATH 2251.
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.

ELEG 3348 Embedded Microcontrollers 3 Credits
Corequisite(s): ELEG 3348L, CPSC 1131.
Prerequisite(s): CPEG 2245.
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. Graduate equivalent: ECEG 5348.

ELEG 3348L Embedded Microcontrollers Lab 1 Credit
Fee: $132 Electrical and Computer Engineering Lab Fee
Corequisite(s): ELEG 3348.
This laboratory covers the basic operation and applications of a microcontroller. Students learn to program a microcontroller to control applications, such as motor speed, by the use of an emulator connected to a PC. They design a circuit using a microcontroller 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 microcontroller for use in their circuits.

ELEG 4315 Nanoelectronics I 3 Credits
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. Graduate equivalent: ECEG 5315.

ELEG 4331 Analog Electronics Design 3 Credits
Corequisite(s): ELEG 4331L.
Prerequisite(s): ELEG 2221, ELEG 3231.
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.

ELEG 4331L Analog Electronics Lab 1 Credit
Fee: $132 Electrical and Computer Engineering Lab Fee
Corequisite(s): ELEG 4331.
This advanced lab provides insight into the functions of various application-specific electronic circuits. Experiments characterize functioning of various analog systems, such as oscillators, active filters, waveform generation and shaping circuits, and voltage regulator circuits.

ELEG 4335 Microelectronics 3 Credits
Prerequisite(s): ELEG 4331.
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. Graduate equivalent: ECEG 5335.

ELEG 4355 Sensor Design and Applications 3 Credits
Prerequisite(s): ELEG 2213.
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. Graduate equivalent: ECEG 5355.

ELEG 4360 Power Electronics 3 Credits
Prerequisite(s): ELEG 2221, ELEG 3301.
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.

ELEG 4361 Green Power Generation 3 Credits
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. Graduate equivalent: ECEG 5361.

ELEG 4365 Internet of Things 3 Credits
Prerequisite(s): ELEG 3348, ELEG 3348L.
This course introduces one or more of the possible hardware devices that support Internet of Things (IoT). The associated communication protocols, storage of data, and the distributed systems needed to support IoT applications will be discussed. Practical IoT device programming (Arduino and Raspberry Pi, STM 32, Azure Sphere devices), and technologies for sensing and collecting data, and utilizing them to design actuating mechanism or data analysis will be presented. Selected IoT protocol stacks (Zigbee, Bluetooth, WiFi) for networking and security enforcement will be presented. Cloud-based IoT platforms such as AWS, Azure will be discussed. Student class project will include development of an IoT application with practical sensor data collection and deployment on a cloud-based IoT service platform.

ELEG 4377 Power Security and Reliability 3 Credits
Prerequisite(s): ELEG 4385.
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. Graduate equivalent: ECEG 5377.

ELEG 4378 Electromagnetic Compatibility 3 Credits
Prerequisite(s): ELEG 3231, ELEG 3301, PHYS 3271.
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. Graduate equivalent: ECEG 4378.

ELEG 4379 Communication Systems 3 Credits
Prerequisite(s): ELEG 3301.
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. Graduate equivalent: ECEG 5379.

ELEG 4385 Power Generation and Distribution 3 Credits
Prerequisite(s): ELEG 2221.
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. Graduate equivalent: ECEG 5385.

ELEG 4386 Fault Analysis in Power Systems 3 Credits
Prerequisite(s): ELEG 4385.
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. Graduate equivalent: ECEG 5386.

Engineering (ENGR)

ENGR 1001 IGNATIAN SEMINAR I: Laudato Si' 0 Credits
This course provides foundational knowledge in sustainability and the urgent environmental challenges faced by humanity. It intends to cultivate ethical and spiritual reflection that raise ecological awareness, stimulate greater commitment to care for creation, and train for global environmental citizenship. This course is framed by institutional positions such as Laudato Si' , the analysis of the common good as explained in Rerum Novarum , and the Care for the Common Home found in the Jesuit Universal Apostolic Preferences (UAPs). Topics such as anthropogenic activities and their impact on the environment, environmental stressors, sustainability and the triple bottom line, industrial ecosystems and materials flows and cycles, design for the environment, life cycle assessment (LCA), energy and water systems, and ecological spirituality. These themes will be explored with regards to Environmental Justice and environmental racism.

ENGR 1031 Fundamentals of Engineering 3 Credits
Course Tags: Magis Core: Writing in the Discipline
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.

ENGR 1060 Science, Technology, Engineering, and Mathematics of the Guitar 3 Credits
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. A lab fee applies to cover materials.

ENGR 2001 IGNATIAN SEMINAR II: Reflection 0 Credits
Prerequisite(s): ENGR 1001.
This course addresses the aspects of Experience and Reflection found within the Ignatian Pedagogical Paradigm (IPP) by exposing the student to the Jesuit history and tradition, as well as some tools for interior life and self-awareness. The main goal for this course is for students to see themselves as valuable contributors, with a unique set of gifts, who have the responsibility to use their skills and talents to serve others and society. Some of the topics include: a brief history of the Society of Jesus, Loyola's Autobiography, a brief history of Jesuit universities and institutions (the apostolate of higher education), spiritual direction and the daily examen, movements of consolation and desolation, fundamentals of discernment and its rules, Ignatian indifference, resume virtues versus eulogy virtues, grit, mattering and self-mattering, happiness and negativity bias, metacognition, and heroic leadership.

ENGR 2130 Engineering Graphics I 3 Credits
This is a basic course in engineering graphics principles and is taught simultaneously with SolidWorks, a 3-D modeling design application. Using computer design, the course stresses orthographic projection, dimensioning, sectional views, 3-D part modeling, assembly modeling, drafting and engineering drawings, fits and limits, and geometric tolerance representation. Students will gain a working knowledge of SolidWorks in engineering design. Course requires a personal laptop running a 64-bit Windows 10 operating system.

ENGR 2145 Mathematical Analysis 3 Credits
Course Tags: Environmental Studies Elective, Environmental Studies: Applied Professional Skills
Corequisite(s): ENGR 2145P.
Prerequisite(s): MATH 1142.
In this course, as you reflect on the question of "Who Am I Called to be?" in your mentoring groups this semester, you will learn mathematical and numerical methods such as root finding, differentiation, integration, solving a system of linear equations and through weekly reflection exercises (modeled on the Ignatian Examen) you will understand how to apply these methods to solve scientific problems. Additionally, the course will cover statistics including data analysis, data fitting, and interpolation. The programming language that will be used in this course is MATLAB.

ENGR 2145P Mathematical Analysis PLG 0 Credits
Peer learning group for ENGR 2145.

ENGR 3001 IGNATIAN SEMINAR III: Social Action 0 Credits
Prerequisite(s):ENGR 2001.
This course invokes the Jesuit charisma and thus seeks to educate and form students so that they discern the unique ways in which they are called to be in service for and with others. This course is anchored in the Rerum Novarum themes of human dignity, subsidiarity, and the preferential option for the poor. With this framework, students will analyze the role of engineering and technology in social justice, and engage the world through a careful analysis of context and experience, evaluated through reflection, for the sake of action (GC35 decree 6). In this course, students will experience an encounter with a societal reality and use their engineering and computing skills to develop an actionable idea, prototype solution, or plan to address a problem and make society more equitable. There is potential for some projects to be done in collaboration with community partners. A project defense will be scheduled against an opposing team of students for a thorough debate on the merits and assessed through the lens of Eloquentia Perfecta : effective communication, ethical reasoning, and personal development for the common good.

ENGR 3260 Robots 3 Credits
Prerequisite(s): ELEG 2213, ELEG 2213L.
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. Students will understand degrees of freedom of a robotic arm and their safety parameters through demonstration and use of Fanuc Robot. Service learning is an integral part of the course. All students will participate in mentoring of youth to put into practice the principles learned in class, and gain communication skills through community interaction. Particularly they will participate in mentoring to build small robots to accomplish different feats, for example obstacle avoidance by a mobile robot.

ENGR 4301 Feedback Control Systems 3 Credits
Prerequisite(s): MATH 2251.
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. Graduate equivalent: MEEG 5301.

ENGR 4303 Industrial Automation 3 Credits
This hands-on course teaches students about components in automation systems and automated production lines. Students learn and practice with industrial sensors, actuators, PLCs, robot arms, pneumatics devices, and electro-pneumatic components. Students create, simulate, and assemble pneumatics, electric, electronics, and electro-pneumatic control circuits. Automation software, ladder logic programming, and robot programming are also discussed. The course comprises lectures, an automation lab, individual assignments, two group projects, and an individual project. Graduate equivalents: ECEG 5303, MEEG 5303.

ENGR 4305 Design of Mechatronics Systems 3 Credits
Prerequisite(s): 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. Graduate equivalent: MEEG 5305.

ENGR 4308 Autonomous Mobile Robots 3 Credits
Prerequisite(s): ELEG 2213, ELEG 2213L.
In this course, students will design and construct functional autonomous robots using provided hardware and electronics to implement multiple "simultaneous" behaviors: position control, obstacle avoidance, and objective completion. Students will focus on programming multi-behavior capability on a robot. In doing so, students will become familiar with microcontroller programming, data acquisition, motors, and sensor characterization for different sensors, such as inertial measurement units, timers, distance sensors / rangefinders, cameras, and beacons. This course will cover the fundamentals of robotic architecture: low-level and high-level control. For low level control, students will implement feedback controllers for orientation and displacement. For high level control, students will program or teach decision-making capabilities for their robot. Robots may complete specific high-level tasks, such as snow removal, lawn mowing, parcel delivery, and a tank battle. Ultimately, students will learn to fuse multiple, simultaneous robot behaviors to produce a functioning, "thinking" autonomous mobile robot with natural behavior. Students may use premade robotic chasses if preferred. Graduate equivalent: ENGR 5308.

ENGR 4310 Industrial Quality Control 3 Credits
Prerequisite(s): MATH 2217.
This course presents an introduction to and a survey of statistical methods for managing quality and continuous process improvements. The course objective is to develop an operational familiarity with contemporary methods found to be effective. This course is intended for those students who do not plan to specialize in quality management. Topics include: statistical process control, quality function deployment, the house of quality, the Taguchi method, Six Sigma, lean and others. The course also covers continuous process improvement methodologies and techniques.

ENGR 4315 Mathematical Programming and Optimization 3 Credits
Prerequisite(s): MATH 2235.
This course is an introduction to combinatorial and integer and non-linear mathematical programming techniques for optimization. The course focuses on mathematical programming and optimization techniques to solve real-life industry problems and support managerial decision making. The course will cover basic deterministic methods of operations research including linear programming, network flow, integer programming, transportation, assignment and trans-shipment problems, decision making under uncertainty and their applications. The emphasis is on mathematical formulation of real-world industry problems, interpretation of computer solutions, and sensitivity analysis of optimal solutions.

ENGR 4330 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 sheet metal 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.

ENGR 4334 Unmanned Aerial Vehicles: Design, Navigation, and Control 3 Credits
Prerequisite(s): ELEG 2213; CPSC 1121 or ENGR 2145.
This course provides an in-depth exploration of unmanned aerial vehicles (UAVs), focusing on their design, navigation, and control. Students will learn the fundamental principles of UAVs, how to design and build basic drones, and apply advanced control and sensor fusion techniques for effective navigation and stabilization. The course also covers the use of UAVs in various applications like photogrammetry and payload delivery, along with a thorough understanding of the regulatory and ethical issues surrounding drone operations. Graduate Equivalent: ECEG 5334.

ENGR 4360 Engineering Project Management 3 Credits
Course Tags: 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.

ENGR 4415 Engineering Applications of Numerical Methods 3 Credits
Prerequisite(s): CPSC 1131.
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. Graduate equivalents: ECEG 5415, MEEG 5415.

ENGR 4961 Senior Design Project I 3 Credits
Prerequisite(s): Completion of all non-elective program courses; completion of other program requirements to enable graduation within the year of completion of ENGR 4962.
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 sequence of courses 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.

ENGR 4962 Senior Design Project II 3 Credits
Prerequisite(s): ENGR 4961.
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 sequence of courses 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.

ENGR 4980 Internship 0-3 Credits
Internships are off-campus experiential learning activities designed to provide students with opportunities to make connections between the theory and practice of academic study and the practical application of that study in a professional work environment. Internships offer the opportunity to "try out" a career while gaining relevant experience and professional connections. Internships are completed under the guidance of an on-site supervisor and a faculty member, who in combination with the student will create a framework for learning and reflection.

ENGR 4990 Independent Study 1-3 Credits
This course is an individualized study under the supervision of a faculty member. Undergraduate students work with a faculty mentor in studying and investigating topics of current interest in engineering or computer science. Students are required to conduct research independently or in collaboration with a faculty member, write a research report or create a poster and present the research in an annual research symposium at the university or elsewhere. Enrollment by departmental approval only.

ENGR 5308 Autonomous Mobile Robots 3 Credits
In this course, students will design and construct functional autonomous robots using provided hardware and electronics to implement multiple “simultaneous” behaviors: position control, obstacle avoidance, and objective completion. Students will focus on programming multi-behavior capability on a robot. In doing so, students will become familiar with microcontroller programming, data acquisition, motors, and sensor characterization for different sensors, such as inertial measurement units, timers, distance sensors / rangefinders, cameras, and beacons. This course will cover the fundamentals of robotic architecture: low-level and high-level control. For low level control, students will implement feedback controllers for orientation and displacement. For high level control, students will program or teach decision-making capabilities for their robot. Robots may complete specific high-level tasks, such as snow removal, lawn mowing, parcel delivery, and a tank battle. Ultimately, students will learn to fuse multiple, simultaneous robot behaviors to produce a functioning, “thinking” autonomous mobile robot with natural behavior. Students may use premade robotic chasses if preferred. Students select a related research topic, identify a technical paper to review, and provide a presentation. Undergraduate equivalent: ENGR 4308.

ENGR 5980 Internship 0-3 Credits
Internships are off-campus experiential learning activities designed to provide students with opportunities to make connections between the theory and practice of academic study and the practical application of that study in a professional work environment. Internships offer the opportunity to "try out" a career while gaining relevant experience and professional connections. Internships are completed under the guidance of an on-site supervisor and a faculty member, who in combination with the student will create a framework for learning and reflection.

ENGR 5990 Independent Study 1-3 Credits
This course is an individualized study under the supervision of a faculty member. Graduate students work with a faculty mentor in studying and investigating topics of current interest in engineering or computer science. Students are required to conduct research independently or in collaboration with a faculty member, write a research report or create a poster and present the research in an annual research symposium at the university or elsewhere. Enrollment by departmental approval only.

English (ENGL)

ENGL 1001 Introduction to Rhetoric and Composition 3 Credits
This course introduces students to the academic discipline of rhetoric and composition. Students read nonfiction texts, including rhetoric and composition and cross-disciplinary scholarship, in order to analyze their conventions and craft texts in various genres and modalities for a range of audiences. Students develop effective writing processes, sound research strategies, strong academic arguments, rhetorical awareness, and sensitivity to disciplinarity. The course prepares students to transfer this knowledge to their compositions across the curriculum and across contexts.

ENGL 1002 Texts and Contexts II: Writing About Literature 3 Credits
This course focuses 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.

ENGL 1010 Introduction to Literary and Cultural Studies 3 Credits
Course Tags: Diversity, Equality, and Inclusion Minor Elective, English Literature After 1800, Magis Core Exploration: Literature
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.

ENGL 1020 Introduction to Contemporary World Literature 3 Credits
Course Tags: English Literature After 1800, Magis Core Exploration: Literature
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.

ENGL 1030 Fairy Tales 3 Credits
Course Tags: English Literature After 1800, French Course Taught in English, Magis Core Exploration: Literature
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.

ENGL 1040 World Epics 3 Credits
Course Tags: English Literature Before 1800, Magis Core Exploration: Literature
A study of selected epic literature from various cultures and historical eras. Epics studied might include: The Epic of Gilgamesh; the Odyssey; the Aeneid; the Ramayana; The Song of Roland (medieval France); Sundiata . Emphasis throughout will be on developing skills of textual analysis, thesis development, and argumentation, with attention to such themes as: the synthesis of extended narrative and the stability and instability of texts; oral tradition and literacy; the construction of national ethos; the idea of the hero; masculinity and violence; conquest, subjugation, and empire; diachronic and synchronic conceptions of ethnicity and race.

ENGL 1050 African Diaspora: Literature and Culture 3 Credits
Course Tags: American Studies: Gateway, American Studies: Literature, Black Studies Focus Course, Diversity, Equality, and Inclusion Minor Elective, English Literature After 1800, Latinx, Latin American and Caribbean Studies Minor Elective, Magis Core Exploration: Literature
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).

ENGL 1060 Ancient Greek Literature 3 Credits
Course Tags: English Literature Before 1800, Magis Core Exploration: Literature
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. Crosslisted with CLST 1060.

ENGL 1070 Ancient Roman Literature 3 Credits
Course Tags: English Literature Before 1800, Magis Core Exploration: Literature
This course is an introduction to the literature of ancient Rome, a canon that took shape from roughly the 3rd century BCE to the 2nd century CE but covers events as early as 753 BCE. We will read and analyze works of various genres of Roman literature in translation, with authors and works including Plautus, Cicero, Catullus, Sulpicia, Propertius, Tibullus, Ovid, Augustus, Livy, Vergil, Lucretius, Seneca, Tacitus, and epigraphy. These authors and works necessarily span a breadth of disciplines (including but not limited to literary studies, gender and sexuality studies, history, art history and archaeology, performing arts, philosophy, and religious studies) which offer a multitude of theoretical approaches and models that we can use to explore our material in an interdisciplinary fashion. Our ultimate goal is to gain a basic understanding of the progression of Roman literature and how each work or genre relates to social and political conditions in Rome at the time. Crosslisted with AMED 1070.

ENGL 1080 Myth in Classical Literature 3 Credits
Course Tags: English Literature Before 1800, Magis Core Exploration: Literature
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. Crosslisted with CLST 1080.

ENGL 1090 Greek Tragedy in English Translation 3 Credits
Course Tags: English Literature Before 1800, Magis Core Exploration: Literature
An intensive study in translation of the surviving works of Aeschylus, Sophocles and Euripides. Knowledge of Greek is not required. Crosslisted with CLST 1090.

ENGL 1100 Greco-Roman Gender & Sexuality 3 Credits
Course Tags: English Literature Before 1800, Magis Core Exploration: Literature, Women, Gender, and Sexuality Studies: Gender Focused
In this course, we will analyze and engage with ancient Greco-Roman works of literature and art to reconstruct Greek and Roman conceptions of gender, sexuality, and interrelated topics: love, masculinity, femininity, homoeroticism, courtship, and marriage, among others. We will then use these investigations as a way to analyze our own modern conceptions of gender and sexuality and explore how issues like the definitions of sex and gender, the dynamics of socio-political power, the creation of community and relationships, and the boundaries of what is legal and moral are necessarily renegotiated from culture to culture and time period to time period. Crosslisted with AMED 1100.

ENGL 1110 International Short Fiction 3 Credits
Course Tags: English Literature After 1800, Magis Core Exploration: Literature
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.

ENGL 1120 19th-Century Russian Novel and World Literature 3 Credits
Course Tags: English Literature After 1800, Magis Core Exploration: Literature
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.

ENGL 1130 Literature of the Holocaust 3 Credits
Course Tags: English Literature After 1800, German Major or Minor Course, Humanitarian Action Minor Context Course, Judaic Studies Minor, Magis Core Exploration: Literature, Peace and Justice Studies
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 Badenheim 1939, Spiegelman's Maus I and II, Frankl's Man's Search for Meaning, Wiesenthal's The Sunflower, Spielberg's "Schindler's List," Wiltsie's "The Good German," and more.

ENGL 1140 Caribbean Literature: History, Culture, and Identity 3 Credits
Course Tags: American Studies: Gateway, American Studies: Literature, Black Studies Focus Course, Educational Studies Cognate, English Literature After 1800, French Course Taught in English, Latinx, Latin American and Caribbean Studies Minor Elective, Magis Core Exploration: Literature, Peace and Justice Studies
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/Suriname.

ENGL 1150 Dante 3 Credits
Course Tags: Catholic Studies: Non-Religious Studies, English Literature Before 1800, Italian Studies: Elective, Magis Core Exploration: Literature
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. Crosslisted with ITLN 2289.

ENGL 1180 Modern China through Fiction and Film 3 Credits
Course Tags: Asian Studies Elective, Diversity, Equality, and Inclusion Minor Elective, English Literature After 1800, Magis Core Exploration: Literature
This course is 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? Crosslisted with CHIN 2250.

ENGL 1200 American Women Playwrights 3 Credits
Course Tags: American Studies: Gateway, English Literature After 1800, Magis Core Exploration: Literature, 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. Crosslisted with THTR 1200.

ENGL 1210 American Literature and the Environment 3 Credits
Course Tags: American Studies: Gateway, American Studies: Literature, English Literature After 1800, Environmental Studies Elective, Environmental Studies Major Elective, Environmental Studies: Humanities, Magis Core Exploration: Literature
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, and Thoreau.

ENGL 1220 The Frontier in American Literature 3 Credits
Course Tags: American Studies: Gateway, American Studies: Literature, English Literature After 1800, Magis Core Exploration: Literature
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 western has occupied in our culture. Authors include Cooper, Twain, Cather, and McCarthy; filmmakers include Ford, Peckinpagh, and Eastwood.

ENGL 1230 Ethnic American Literature 3 Credits
Course Tags: American Studies: Gateway, American Studies: Literature, English Literature After 1800, Latinx, Latin American and Caribbean Studies Minor Elective, Magis Core Exploration: Literature
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.

ENGL 1235 Jewish Identity in Literature 3 Credits
Course Tags: English Literature After 1800, Judaic Studies Minor, Magis Core Exploration: Literature
This course explores Jewish identity through literature. Beginning with an investigation into various faith traditions and family practices, we study foundational texts in order to establish essential questions. Units on "Wrestling," "Blessings," "Living in a Broken World," and "Justice" will engage with ethics and morality as well as spiritual and artistic traditions. Texts will range from excerpts from Genesis to modern poetry and novels, with attention also to paintings, films, and other media.

ENGL 1240 American Literature: Myths and Legends 3 Credits
Course Tags: American Studies: Gateway, American Studies: Literature, English Literature After 1800, Magis Core Exploration: Literature
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.

ENGL 1245 American Romanticism 3 Credits
Course Tags: American Studies: Literature, English Literature After 1800, Magis Core Exploration: Literature
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 these movements through an interdisciplinary lens, we examine how these writers responded to broad social, aesthetic, and philosophical influences in crafting their unique literary styles. We will also analyze paintings, photographs, film, and material culture to understand how romanticism and transcendentalism defined this age and continues to influence our own. Authors include Emerson, Fuller, Thoreau, Alcott, Poe, Hawthorne, Melville, Douglass, Davis, Whitman, and Dickinson.

ENGL 1250 American Drama 3 Credits
Course Tags: American Studies: Gateway, American Studies: Literature, English Literature After 1800, Magis Core Exploration: Literature
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. Crosslisted with THTR 1250.

ENGL 1260 American Social Protest Literature 3 Credits
Course Tags: American Studies: Gateway, American Studies: Literature, Diversity, Equality, and Inclusion Minor Elective, English Literature After 1800, Magis Core Exploration: Literature, Peace and Justice Studies
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.

ENGL 1270 Romantic Love in Greek and Roman Literature 3 Credits
Course Tags: English Literature Before 1800, Magis Core Exploration: Literature
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. Crosslisted with CLST 1270.

ENGL 1280 Asian American Cultures, Conflicts, and Identities in Literature 3 Credits
The status of Asian Americans in the US is as much a result of American history as it is Asia's. This essential liminal characteristic imparts Asian American Literature an unique flavor with questions of reality, the fake and the fabricated. It also leads to a variety of works ranging from experimental forms and genres to narratives of war and oppression to texts that express the physical and psychological effects of people born and bred in cultures and contexts that have disowned them. Students learn to understand the cultural, historical, artistic and political ramifications of this dynamic body of literature.

ENGL 1290 American Short Story 3 Credits
Course Tags: American Studies: Gateway, English Literature After 1800, Magis Core Exploration: Literature
This course 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.

ENGL 1300 Literature by Women: Vision and Revision 3 Credits
Course Tags: Diversity, Equality, and Inclusion Minor Elective, English Literature After 1800, Magis Core Exploration: Literature, Women, Gender, and Sexuality Studies: Gender Focused
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.

ENGL 1310 Contemporary Women Writers of Color 3 Credits
Course Tags: American Studies: Gateway, American Studies: Literature, Black Studies Component Course, English Literature After 1800, Magis Core Exploration: Literature, Peace and Justice Studies, Women, Gender, and Sexuality Studies: Gender Focused
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.

ENGL 1320 20th Century Russian Fiction 3 Credits
Course Tags: English Literature After 1800, Magis Core Exploration: Literature
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 move 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 with its historical, political, and cultural contexts, incorporating material from the arts, as well.

ENGL 1330 African American Literary Tradition 3 Credits
Course Tags: American Studies: Gateway, Black Studies Focus Course, Diversity, Equality, and Inclusion Minor Elective, Magis Core Exploration: Literature
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.

ENGL 1340 Democracy in Black and Indigenous Voices 3 Credits
Course Tags: American Studies: Gateway, American Studies: Literature, Magis Core Exploration: Literature
This course brings together Black Studies and Native Studies in an exploration of what scholar Tiffany Lethabo King terms the "Black Shoals": a new way of seeing relation and imagining new kinds of futures. In contemporary poetry, fiction, essays, and memoir, Black and Indigenous writers act as agents for change, engaging with the history and institutions of the U.S. that are based in the violence of settler colonialism and enslavement. These authors argue for not only full citizenship but also a radical shift in the institutions of this country in order to transform the U.S. into real democracy.

ENGL 1350 Graphic Novels as Thrillers and Chillers 3 Credits
Course Tags: American Studies: Literature, English Literature After 1800, Magis Core Exploration: Literature
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 multi-modal tools such as blogs, Wiki, Twitter, Animoto, and visual story-telling. Students will be trained to grasp the fact 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.

ENGL 1360 Book Histories and Futures: Literature in Times of Media Change 3 Credits
Course Tags: English Literature After 1800, Magis Core Exploration: Literature
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.

ENGL 1370 Reading for Pleasure: Principles and Practices 3 Credits
This Magis Core literature course is designed to connect, re-connect, or introduce students to the joys of reading for fun. We will explore the factors that motivate people to read for pleasure; the environments conducive to reading for pleasure; the principles, platforms, practices and pedagogies that support reading for pleasure; and the kinds of literary texts people enjoy reading for pleasure.

ENGL 1410 Imagining Shakespeare 3 Credits
Course Tags: Educational Studies Cognate, English Literature Before 1800, Magis Core Exploration: Literature
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.

ENGL 1410X Imagining Shakespeare 3 Credits
Course Tags: English Literature Before 1800, Magis Core Exploration: Literature, Magis Core: Interdisciplinary
Corequisite(s): HIST 2228X.
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. This course is linked with HIST 2228X and fulfills the requirements for the interdisciplinary signature element within the Magis Core.

ENGL 1420 Myths and Legends of Ireland and Britain 3 Credits
Course Tags: English Literature Before 1800, Irish Studies Elective, Magis Core Exploration: Literature
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 epic 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.

ENGL 1420X Myths and Legends of Ireland and Britain 3 Credits
Course Tags: English Literature Before 1800, Irish Studies Elective, Magis Core Exploration: Literature, Magis Core: Interdisciplinary
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 epic 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. This course is linked with AHST 1121X and fulfills the requirements for the interdisciplinary signature element within the Magis Core.

ENGL 1430 The Greenworld: English Literature and the Environment 3 Credits
Course Tags: English Literature Before 1800, Environmental Studies Elective, Environmental Studies Major Elective, Environmental Studies: Humanities, Magis Core Exploration: Literature
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.

ENGL 1450 King Arthur 3 Credits
Course Tags: English Literature Before 1800, Magis Core Exploration: Literature
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.

ENGL 1610 Irish Literature 3 Credits
Course Tags: Catholic Studies: Non-Religious Studies, English Literature After 1800, Irish Studies Elective, Magis Core Exploration: Literature
The course studies the deep connections between the literature and history of Ireland from 1800 to the present, further developing 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.

ENGL 1620 Irish Women Writers 3 Credits
Course Tags: Catholic Studies: Non-Religious Studies, English Literature After 1800, Irish Studies Elective, Magis Core Exploration: Literature, Women, Gender, and Sexuality Studies: Gender Focused
The course is an overview of Irish Women Writers, both Anglo and Gaelic, in a variety of genres, from 1770 to the present. Students will explore the fundamental difference between the privileged Anglo-Irish and the marginalized Gaelic Irish. The focus will be on various aspects of women's issues including gender, folklore, religion, education, work, marriage, motherhood and feminism. Students will examine the oral lament of Eileen O'Connell, the Big House novel of Maria Edgeworth, and the Famine poetry of Eavan Boland. A major literary focus is on the Irish Renaissance and the plays of Lady Augusta Gregory. Students will read an account of an Irish-speaking woman's life on the Great Blasket Island, a short story about a convent school nun by Edna O'Brien, and story of fairy folklore by Eilis Ni Dhuibhne. There will be a research paper on Elizabeth Bowen's novel, The Last September. The historic content will include, the Penal Laws, the Great Hunger, and the Irish War of Independence. Our survey will also include samples of Gaelic Irish poetry, and Claire Keegan's novella of a girl's coming of age in 1980s Ireland. In our classroom conversations, reflection writings and essays, students will be asked to make informed observations on and between the Anglo and Gaelic perspectives.

ENGL 1630 Literature of Illness and Healing: Wounded Storytellers and Dedicated Healers 3 Credits
Course Tags: Health Studies: Traditions, Delivery, and Ethics, Magis Core Exploration: Literature
What is it like to suffer a stroke, contend with cancer, deal with depression or live with a debilitating disease? While bio-medicine 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.

ENGL 1700 Writing the Self: Autobiography 3 Credits
Course Tags: American Studies: Gateway, English Literature After 1800, Magis Core Exploration: Literature
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.

ENGL 1710 Literature and the Visual Arts 3 Credits
Course Tags: English Literature After 1800, Magis Core Exploration: Literature, Women, Gender, and Sexuality Studies: Gender Component
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.

ENGL 1720 Literacy and Language 3 Credits
Course Tags: Diversity, Equality, and Inclusion Minor Elective, Educational Studies Cognate, English Literature After 1800, Magis Core Exploration: Literature
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.

ENGL 1730 You Are Here: Reading and Writing Place 3 Credits
Course Tags: Magis Core Exploration: Literature
In this course, activities will help students develop confidence in engaging complex texts and ignite interest in post-course reading and deep appreciation of literature. Students will learn to read closely and to look at intertextuality (the way texts "talk" to each other) as well as connecting these texts to history and culture. Students will continue using their literary and critical vocabulary, practicing their writing and speaking and research skills, and will continue their habits of integrating sources.

ENGL 1740 Mirror, Mirror: Myths, Fairy Tales, and Creative Writing 3 Credits
This course, with its dual emphasis on literature and creative writing, will explore the generative possibilities of reading and reconsidering myths and fairy tales. Our focus will be on contemporary writing inspired by core narratives; we'll explore the ways new work addresses older tales, discuss the reception of classical myths (primarily Greek), including the centering of (some) marginalized or hidden perspectives, and study writing craft. Our topic will lead us to other genres and art forms, an interdisciplinary approach to enrich our understanding of the creative process. Students will submit a story-length piece of original fiction for peer review.

ENGL 1801 Creative Writing 3 Credits
This course fosters creativity and critical acumen through extensive exercises in the composition of poetry and fiction.

ENGL 1802 Creative Writing: Poetry I 3 Credits
Course Tags: Editing and Publishing Minor Elective
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.

ENGL 1804 Creative Writing: Drama 3 Credits
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.

ENGL 1805 Creative Writing: Fiction I 3 Credits
Course Tags: Editing and Publishing Minor Elective
An introduction to writing fiction in a course that focuses on elements of craft, including character, setting, perspective, and conflict. Coursework will include close readings of published stories and novels (with an emphasis on writing techniques and narrative strategies), writing prompts and exercises, drafts of original fiction, and a substantive revision. Students will participate in discussions and peer review in a workshop format.

ENGL 1806 Creative Writing: Nonfiction I 3 Credits
Course Tags: Digital Journalism Elective, Editing and Publishing Minor Elective
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.

ENGL 1832 Business Writing 3 Credits
Course Tags: Business Elective, Digital Journalism Elective, Editing and Publishing Minor Elective
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.

ENGL 1835 Technical Writing 3 Credits
Course Tags: Digital Journalism Elective, Environmental Studies: Applied Professional Skills
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.

ENGL 1839 Grant and Proposal Writing 3 Credits
Course Tags: Digital Journalism Elective, Environmental Studies: Applied Professional Skills, Humanitarian Action Minor Skills/Method Course, Public Administration Grant and Proposal Writing
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.

ENGL 1850 Professional Presentations: Writing and Delivery 3 Credits
Course Tags: Digital Journalism Elective
The ability to speak confidently and convincingly is an asset to everyone who wants to take an active role in their workplace and community. This interdisciplinary and writing-intensive course provides students with the necessary tools to produce audience-centered presentations and develop critical-thinking skills. It also introduces the techniques of argumentation and persuasion, and the use of technology in presentations.

ENGL 2001 Rhetorics that Matter: Personal, Public, Political 3 Credits
Prerequisite(s): ENGL 1001.
This course supports students in contributing to public discourse that surrounds identities, causes, and topics of personal significance. Building on the knowledges and skills developed in ENGL 1001, students will develop public composing projects that demonstrate sophisticated rhetorical strategies, sensitivity to genre, and understanding of rhetorical ecologies beyond classroom walls. An intersectional lens is used throughout the course, with attention paid to how personal identity, community, and discourse intersect to create cultural marginalization and privilege.

ENGL 2002 American Poetry 3 Credits
Course Tags: American Studies Upper Level, American Studies: Literature, English Literature After 1800
Prerequisite(s): One 1000-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.

ENGL 2003 English Epic 3 Credits
Course Tags: English Literature Before 1800
Prerequisite(s): One 1000-level English literature course.
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 and might include : Beowulf from the Old English period; Edmund Spenser's The Faerie Queene from the Elizabethan period; John Milton's Paradise Lost from the seventeenth century; Alexander Pope's The Rape of the Lock from the eighteenth century. Critical attention will be paid throughout to changing and competing conceptions of England, nation, and epic.

ENGL 2004 Literary Fairy Tale Tradition 3 Credits
Course Tags: English Literature After 1800
Prerequisite(s): One 1000-level English literature course.
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 ENGL 1030.

ENGL 2005 Greco-Roman Literature in Depth 3 Credits
Course Tags: English Literature Before 1800, Magis Core Exploration: Literature
This course focuses on one author from Greco-Roman antiquity and engages with their literary work(s) in English translation. Each successive offering of this shell course focuses on a different author or text, so students may take this course multiple times for credit. Topics will include the historical circumstances that formed the author and text; thematic considerations that allow insight into the constructions of ancient culture; comparisons and contrasts between ancient beliefs about institutions like relationships, family, politics, war, and religion and modern ones; and the reception of ancient literature and narratives in later cultures.

ENGL 2011 Age of Chaucer 3 Credits
Course Tags: Catholic Studies: Non-Religious Studies, English Literature Before 1800
Prerequisite(s): One 1000-level English literature course.
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.

ENGL 2013 Shakespeare I 3 Credits
Course Tags: Educational Studies Cognate, English Literature Before 1800
Prerequisite(s): One 1000-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.

ENGL 2014 Shakespeare II 3 Credits
Course Tags: Educational Studies Cognate, English Literature Before 1800
Prerequisite(s): One 1000-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 anti-heroic 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.

ENGL 2015 Introduction to 18th Century British Literature 3 Credits
Course Tags: English Literature Before 1800
Prerequisite(s): One 1000-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.

ENGL 2016 Victorian Poetry and Poetics 3 Credits
Course Tags: English Literature After 1800, Women, Gender, and Sexuality Studies: Gender Component
Prerequisite(s): One 1000-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.

ENGL 2019 20th Century British Literature 3 Credits
Course Tags: English Literature After 1800
Prerequisite(s): One 1000-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.

ENGL 2031 Early American Literature 3 Credits
Course Tags: American Studies: Literature, English Literature Before 1800
Prerequisite(s): One 1000-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.

ENGL 2033 American Women Writers of the 19th Century 3 Credits
Course Tags: American Studies Upper Level, American Studies: Literature, English Literature After 1800, Women, Gender, and Sexuality Studies: Gender Focused
Prerequisite(s): One 1000-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.

ENGL 2043 American Literature: 20th Century to the Present 3 Credits
Course Tags: American Studies Upper Level, English Literature After 1800
Prerequisite(s): One 1000-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.

ENGL 2045 Edith Wharton and Her Circle 3 Credits
Course Tags: American Studies: Literature, English Literature After 1800, Women, Gender, and Sexuality Studies: Gender Focused
Prerequisite(s): One 1000-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.

ENGL 2062 The Harlem Renaissance 3 Credits
Course Tags: American Studies Upper Level, American Studies: Literature, Black Studies Focus Course, English Literature After 1800
Prerequisite(s): One 1000-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.

ENGL 2063 African American Women Writers 3 Credits
Course Tags: American Studies Upper Level, American Studies: Literature, Black Studies Focus Course, English Literature After 1800, Women, Gender, and Sexuality Studies: Gender Focused
Prerequisite(s): One 1000-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.

ENGL 2064 African American Fiction, 1940 to Present 3 Credits
Course Tags: American Studies Upper Level, Black Studies Focus Course, English Literature After 1800
Prerequisite(s): One 1000-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.

ENGL 2075 Modern Women Writers 3 Credits
Course Tags: English Literature After 1800, Women, Gender, and Sexuality Studies: Gender Focused
Prerequisite(s): One 1000-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.

ENGL 2081 Native American Literature 3 Credits
Course Tags: American Studies Upper Level, American Studies: Literature, English Literature After 1800
Prerequisite(s): One 1000-level English literature course.
This course focuses on Native American literature from the early 20th century to the present. Grounded in Native studies theory, this course considers the ways in which Native writers past and present grapple with, and assert agency against, the effects of settler-colonialism on their cultures. Writers might include Charles Alexander Eastman, Zitkala Sa, Leslie Marmon Silko, James Welch, Louis Erdrich, Layli Long Soldier, David Heska Wanbli Weiden.

ENGL 2082 Latinx Literature 3 Credits
Course Tags: American Studies Upper Level, American Studies: Literature, English Literature After 1800, Latinx, Latin American and Caribbean Studies Minor Elective
Prerequisite(s): One 1000-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 United States. Course readings and discussions are in English. Spanglish is welcomed.

ENGL 2083 Asian Diasporas: Challenges to Citizenship 3 Credits
Course Tags: American Studies Upper Level, American Studies: Literature, English Literature After 1800, Humanitarian Action Minor Context Course, Women, Gender, and Sexuality Studies: Gender Focused
Prerequisite(s): One 1000-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.

ENGL 2091 Gender and Sexuality in Film and Literature 3 Credits
Course Tags: English Literature After 1800, Women, Gender, and Sexuality Studies: Gender Focused
Prerequisite(s): One 1000-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.

ENGL 2092 Contemporary Children's Literature 3 Credits
Course Tags: Editing and Publishing Minor Elective, Educational Studies Cognate, English Literature After 1800
Prerequisite(s): One 1000-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. Knoepflmacher 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.

ENGL 2170 Themes in Creative Writing 3 Credits
Prerequisite(s): ENGL 1802 or ENGL 1805 or ENGL 1806.
This course provides an opportunity for students to study how a single theme is treated by a number of writers in the diverse genres of poetry, fiction, and nonfiction and to experiment with writing in all three genres as well. Topics will vary by year, but students will get the opportunity to write creatively and analytically on the theme in a course that combines techniques of literary study with those of creative writing.

ENGL 2220 Teaching/Writing 3 Credits
Course Tags: Educational Studies Cognate
Prerequisite(s): ENGL 1001.
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.

ENGL 2230 Global Englishes: Introduction to Linguistic Grammar. 3 Credits
Course Tags: Digital Journalism Elective, Educational Studies Cognate
Prerequisite(s): ENGL 1001.
This course offers students an introduction to the interdisciplinary field of linguistics, with a focus on the linguistic grammar of English. We will examine the grammatical rules of English by studying the main branches of linguistics (phonetics, phonology, morphology, syntax, semantics, and pragmatics) and applying those principles to additional areas of study, such as sociolinguistics, psycholinguistics, and applied linguistics. This course's focus on Global Englishes allows us to extend our analysis of English grammar to considerations of English's relationship to globalization, language varieties, language policy and planning, and education. This course is designed for students seeking to learn more about the structure of English grammar and how it shapes communication.

ENGL 2290 Writing and Responding 3 Credits
Course Tags: Editing and Publishing Minor Elective, Educational Studies Cognate
Prerequisite(s): ENGL 1001.
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.

ENGL 2310 Rhetorics of Resistance 3 Credits
Course Tags: Peace and Justice Studies
Through the reading of rhetorical theory, scholarship, and case studies, this course introduces students to the use of rhetoric within social movements. The course explores the connections between personal identities, "everyday activism," and political protest. Students will analyze the rhetorical moves made within social movements and will translate rhetorical theory into rhetorical action by contributing to a social justice movement of their choosing. Hands-on workshops in a variety of composing strategies and technologies will be offered.

ENGL 3011 Chaucer's Canterbury Tales 3 Credits
Course Tags: Catholic Studies: Non-Religious Studies, English Literature Before 1800
Prerequisite(s): One 1000-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.

ENGL 3014 Renaissance Eros 3 Credits
Course Tags: English Literature Before 1800, Women, Gender, and Sexuality Studies: Gender Focused
Prerequisite(s): One 1000-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, Lyly, Marlow, and Montaigne.

ENGL 3019 James Joyce 3 Credits
Course Tags: Catholic Studies: Non-Religious Studies, English Literature After 1800, Irish Studies Elective
Prerequisite(s): One 1000-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.

ENGL 3021 Life and Print Culture in 18th Century London 3 Credits
Course Tags: English Literature Before 1800
Prerequisite(s): One 1000-level English literature course.
What was it like to live in 18th 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.

ENGL 3022 Race, Culture, and British Travel Narrative, 1682-1789 3 Credits
Course Tags: English Literature Before 1800
Eighteenth-century Britain transformed the world in ways that are still with us, and the world also transformed eighteenth-century Britain. As growing overseas colonies and the transatlantic slave trade made Britain into a global superpower, its increasingly literate population eagerly consumed accounts of faraway places and peoples––real, fictional, and everywhere in between. This course will take an in-depth look at these texts, typically referred to as "travel narratives," with a special emphasis on how they reflected and shaped eighteenth-century ideas about difference among peoples and societies––the kinds of difference that today might be called "race" or "culture."

ENGL 3030 Edith Wharton 3 Credits
Course Tags: English Literature After 1800, Women, Gender, and Sexuality Studies: Gender Focused
Prerequisite(s): ENGL 1000-level course.
A study of the major literary works by the American realist and cultural critic Edith Wharton (1862-1937). Discussions will address the social constructions of gender, cultures of consumption, models of marriage and divorce, women's rights, lives of the privileged and unprivileged, cross-generational and cross-class relations, aesthetic representations, and recent film and TV adaptations of Wharton's fiction. Readings will include well-known novels such as The House of Mirth, Ethan Frome, and the Pulitzer-Prize winning The Age of Innocence, short stories especially gothic tales, poetry, memoir, and writings on architecture, design, travel, and literary criticism.

ENGL 3031 Emily Dickinson and Her Contemporaries 3 Credits
Course Tags: English Literature After 1800, Women, Gender, and Sexuality Studies: Gender Focused
Prerequisite(s): 1000 level core literature course.
A study of the poems and letters of Emily Dickinson, including her contemporaries and those she influenced. Through literary analysis and creative activities, we study how Dickinson's poems create rhetorical situations and act as vehicles for artistic expression and social concern. The course explores poetic form and contemporary lyric theory as well as various topics, such as media and the Civil War, elegies and nineteenth-century consolatory fictions, religious discourse, literary celebrity, the construction of gender and racial identity, and the biopic. Writers may include Whitman, Emerson, Keats, George Eliot, Tennyson, the Brontës, the Brownings, Moore, Bishop, and Frost.

ENGL 3032 American Romanticism 3 Credits
Course Tags: American Studies Upper Level, American Studies: Literature, English Literature After 1800
Prerequisite(s): One 1000-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.

ENGL 3033 American Realism and Naturalism 3 Credits
Course Tags: American Studies Upper Level, American Studies: Literature, English Literature After 1800
Prerequisite(s): One 1000-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, etc. Writers may include Chesnutt, Chopin, Crane, Davis, Dreiser, Du Bois, Eaton, Freeman, Gilman, Howells, James, Jewett, Norris, Twain, Washington, and Wharton.

ENGL 3034 American Modernism 3 Credits
Course Tags: American Studies Upper Level, American Studies: Literature, English Literature After 1800
Prerequisite(s): One 1000-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.

ENGL 3035 Contemporary American Literature and Culture 3 Credits
Course Tags: American Studies Upper Level, American Studies: Literature, English Literature After 1800
Prerequisite(s): One 1000-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.

ENGL 3036 Seminar on Toni Morrison 3 Credits
Course Tags: American Studies: Literature, Black Studies Focus Course, English Literature After 1800, Peace and Justice Studies, Women, Gender, and Sexuality Studies: Gender Focused
Prerequisite(s): One 1000-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.

ENGL 3051 Literary Theory 3 Credits
Course Tags: English Literature After 1800, Magis Core: Interdisciplinary
Prerequisite(s): One 1000-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, Post-structuralism, Psychoanalytic criticism, Feminist theory, Gender and Queer Studies, Post-colonialism, and others. Course readings range broadly from Kant to Derrida, Freud to Spivak.

ENGL 3052 Cultural Studies Theory 3 Credits
Course Tags: English Literature After 1800, Magis Core: Interdisciplinary
Prerequisite(s): One 1000-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.

ENGL 3072 All About Eve 3 Credits
Course Tags: Catholic Studies: Non-Religious Studies, English Literature Before 1800, Judaic Studies Minor, Women, Gender, and Sexuality Studies: Gender Focused
Prerequisite(s): One 1000-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.

ENGL 3073 Literature for Young Adults 3 Credits
Course Tags: English Literature After 1800, Magis Core: Social Justice II, Magis Core: Writing in the Discipline
Prerequisite(s): One 1000-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.

ENGL 3074 The Woman Question: Early Feminism and 19th Century Transatlantic Literature 3 Credits
Course Tags: American Studies Upper Level, American Studies: Literature, English Literature After 1800, Women, Gender, and Sexuality Studies: Gender Focused
Prerequisite(s): One 1000-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.

ENGL 3075 Caribbean Women Writers 3 Credits
Course Tags: American Studies Upper Level, American Studies: Literature, Black Studies Component Course, English Literature After 1800, Latinx, Latin American and Caribbean Studies Minor Elective, Women, Gender, and Sexuality Studies: Gender Focused
Prerequisite(s): One 1000-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.

ENGL 3076 Global Women's Fiction 3 Credits
Course Tags: Black Studies Component Course, English Literature After 1800, Women, Gender, and Sexuality Studies: Gender Focused
Prerequisite(s): One 1000-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, Djebar, 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.

ENGL 3077 Nonstop Metropolis: Literature and Culture in NYC 3 Credits
Course Tags: American Studies Upper Level, American Studies: Literature, English Literature After 1800, Women, Gender, and Sexuality Studies: Gender Focused
Prerequisite(s): One 1000-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.

ENGL 3078 People, Power, Politics: Postcolonial Adaptations 3 Credits
Course Tags: Black Studies Focus Course, English Literature After 1800, Women, Gender, and Sexuality Studies: Gender Focused
Prerequisite(s): One 1000-level English literature course.
This is a hybrid course that examines the interconnections between literary and film mediums. Looking through a postcolonial lens, we will analyze both selected texts of literature (novels, autobiographies, nonfiction essays) and their corresponding film adaptations (documentaries, biopics, dramas). The theme of Postcolonial Identities and Global Transformations will be of focus alongside foundational theoretical essays to ground our critical orientation. Literary and cultural theorists include Stuart Hall, Audre Lorde, Frantz Fanon, Carol Boyce Davies, Edouard Glissant, Edward Said, and Gayatri Chakravorty Spivak.

ENGL 3080 Food For Thought: Consumption and Contemporary Culture 3 Credits
Course Tags: English Literature After 1800
Prerequisite(s): One 1000-level English literature course.
We know that food is an integral part of our lives as we know that what we (choose to, like to, and are compelled to) eat is a fundamental element of who we are. We rarely stop to consider, however, the ramifications of these choices around these most elemental of rituals. Food studies orients us towards the seriousness of questions around what we eat, with whom, and under what circumstances. Through an analysis of literature, cinema, and critical scholarship, in this course we will consider questions of choice, equity, displacement, and deprivation that surface prominently in our practices around consumption.

ENGL 3120 Creative Writing: Poetry II 3 Credits
Prerequisite(s): ENGL 1802.
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.

ENGL 3140 World of Publishing 3 Credits
Course Tags: Digital Journalism Elective, Editing and Publishing Minor Elective
Prerequisite(s): ENGL 1001.
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 literary magazine, Dogwood.

ENGL 3150 Creative Writing: Fiction II 3 Credits
Prerequisite(s): ENGL 1805; ENGL 1740; or by permission of the instructor.
This advanced creative writing course is for students who already have experience with basic elements of craft and with the process of writing and revision. Advanced students will submit original work in an intensive workshop, provide extensive feedback for their peers, and prepare a final portfolio with a revision and reflection. Discussions of published fiction will focus on narrative strategies and structure.

ENGL 3160 Creative Writing: Nonfiction II 3 Credits
Course Tags: Editing and Publishing Minor Elective
Prerequisite(s): ENGL 1806.
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.

ENGL 3161 Magazine Writing 3 Credits
Course Tags: Digital Journalism Elective, Editing and Publishing Minor Elective
Prerequisite(s): ENGL 1001.
Magazine Writing will introduce students to the history and wide range offered by this format, which has introduced new genres and offered a place for experimentation and change. This interdisciplinary course overlaps with both journalism and creative writing, allowing students to explore and discuss advanced options for portraying the self and others in nonfiction. Assignments may include immersion reporting, experimental memoir, and long-form essays. Meets program requirements in Digital Journalism, and counts as Creative Writing "Intermediate" workshop.

ENGL 3201 Persuasive Writing 3 Credits
Course Tags: Digital Journalism Elective
Prerequisite(s): ENGL 1001.
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.

ENGL 3236 Issues in Professional Writing 3 Credits
Course Tags: Digital Journalism Elective, Editing and Publishing Minor Elective
Prerequisite(s): ENGL 1001.
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 topics.

ENGL 3237 Multimedia Writing 3 Credits
Course Tags: Digital Journalism Elective
Prerequisite(s): ENGL 1001.
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.

ENGL 3310 Queer Rhetorics and Theories 3 Credits
Course Tags: Digital Journalism Elective, Women, Gender, and Sexuality Studies: Gender Focused
This course examines the rhetorics and theories crafted by LGBTQIA+ activists, academics, and icons in the cause of queer liberation. Topics include LGBTQIA+activists' responses to and shaping of historical and cultural metanarratives; the impact of rhetorical mode on activists' resistance to homophobia, transphobia, heterosexism, and other forms of bigotry; and rhetorical ecologies and the reception LGBTQIA+ rhetorics have received. An intersectional lens is used throughout the course, with attention paid to how race, gender, economic class, geographical location, citizenship status, disability, and more impact bigotry and alliance, both out- and inside LGBTQIA+ communities.

ENGL 3315 Feminist Rhetorics 3 Credits
Course Tags: Women, Gender, and Sexuality Studies: Gender Focused
Prerequisite(s):ENGL 1001.
What does it mean to read the world through a feminist rhetorical lens? What happens when we consider texts, language, human interaction, and communities and systems using feminist rhetorical perspectives? This course begins by exploring these inquiries and aims to expose students to the varied perspectives, practices, theories, and subtopics related to Feminist Rhetorics, a subfield of Rhetoric & Composition. Through course projects, students will write for different audiences and purposes while gaining an understanding of feminist rhetorics, including methods for examining everyday rhetorical situations. Students will compose in various genres and collaborate with peers on a regular basis.

ENGL 3320 Writing the Feature Story 3 Credits
Course Tags: Digital Journalism Elective
Prerequisite(s): ENGL 1870.
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.

ENGL 3360 Literary Journalism 3 Credits
Course Tags: Digital Journalism Elective, Sports Media Elective
Prerequisite(s): ENGL 1870.
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.

ENGL 4150 Advanced Portfolio Workshop 3 Credits
Prerequisite(s): ENGL 3120 or ENGL 3150 or ENGL 3160.
This is a capstone course for Creative Writing concentrators who want to work on longer creative projects (novel, memoir, collection of short stories, essays, or poems; or some combination thereof). The course will be run as a workshop class, with students submitting creative work in one (or more) of the three genres, to be read and critiqued by the faculty member and students. Students can expect to submit a minimum of 50 pages of prose or 30 pages of poetry or some equivalent of the two. Students will also be required give a final public reading of their work during the semester.

ENGL 4900 Special Topics (Shell) 3 Credits
Prerequisite(s): ENGL 1001.
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.

ENGL 4952 Publishing Practicum 3 Credits
Course Tags: Digital Journalism Elective, Editing and Publishing Minor Elective
Prerequisite(s): Junior standing.
Students apply material learned in ENGL 3140 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.

ENGL 4960 Independent Writing Project 3 Credits
Course Tags: Digital Journalism Capstone Course
Prerequisite(s): ENGL 1001.
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.

ENGL 4970 Digital Publishing in the Humanities 3 Credits
Course Tags: Editing and Publishing Minor Elective
Students work as editors and peer reviewers for Apollon, a digital journal publishing double-blind, peer-reviewed undergraduate humanities research. In addition to learning about research in the humanities by evaluating submitted essays, students acquire multiple applied skills. They write and post calls for papers; manage submissions; compose rejection, acceptance, and resubmission letters; compose reader's reports; maintain professional correspondence with contributors; market and publicize the journal; and edit accepted submissions. Students learn to use Google analytics; curate existing digital content, including podcast and video; evaluate digital humanities submissions; develop an ebook for each issue; create content and maintain an archival system. Enrollment by permission only.

ENGL 4980 Internship 1-3 Credits
Course Tags: Digital Journalism Capstone Course, Editing and Publishing Minor Elective
Prerequisite(s): ENGL 1001.
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.

ENGL 4990 Independent Study 1-4 Credits

ENGL 4999 Literature Capstone 3 Credits
Prerequisite(s): One 3000-level literature course; ENGL 3051 or ENGL 3052; junior 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.

ENGL 5441 Fiction 6 Credits
Corequisite(s): ENGL 5991.
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.

ENGL 5442 Non-Fiction 6 Credits
Corequisite(s): ENGL 5992.
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.

ENGL 5443 Poetry 6 Credits
Corequisite(s): ENGL 5993.
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.

ENGL 5444 Stage and Screen 6 Credits
Corequisite(s): ENGL 5994.
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.

ENGL 5445 MFA Residency Full Term 0 Credits
Fee: $1300 MFA Residency Fee
A course that represents attendance at in-person residency at Enders Island, Mystic, CT for the MFA program.

ENGL 5446 MFA Residency Half Term 0 Credits
Fee: $650 MFA Residency Fee
A course that represents half-residency (four-day) attendance at in-person residency at Enders Island, Mystic, CT for the MFA program.

ENGL 5990 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.

ENGL 5991 Independent Study: Fiction 1-9 Credits
This course is a five-month, intensive distance-learning writing program of study developed by both the student and their assigned mentor. Under the mentor's guidance, the student will develop a plan to improve their 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 midterm assessment of the student's development and a final assessment along with a grade.

ENGL 5992 Independent Study: Non-Fiction 6-9 Credits
This course is a five-month, intensive distance-learning writing program of study developed by both the student and their assigned mentor. Under the mentor's guidance, the student will develop a plan to improve their 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 midterm assessment of the student's development and a final assessment along with a grade.

ENGL 5993 Independent Study: Poetry 6-9 Credits
This course is a five-month, intensive distance-learning writing program of study developed by both the student and their assigned mentor. Under the mentor's guidance, the student will develop a plan to improve their 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.

ENGL 5994 Independent Study: Stage and Screen 6-9 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.

Please see Addendum for the correct title for ENGL 4900 Special Topics.

Environmental Studies (EVST)

EVST 2004 Causes and Solutions of Environmental Problems: Explanations from the Social Sciences 3 Credits
Course Tags: Environmental Studies Elective, Environmental Studies Major Elective, Environmental Studies: Social Science, Magis Core: Interdisciplinary
Why is it difficult to prevent or fix environmental problems? What can we do? This interdisciplinary course examines important approaches for understanding the causes of and potential solutions for environmental problems; in particular approaches from economics, political science, international relations theory, sociology, and paradigms for understanding the relationship between humans and the environment. Issues considered include why humans create or allow serious environmental problems to occur, inherent difficulties of addressing environmental problems effectively, and what types of policy and tools are available to address them.

EVST 2005 Campus Sustainability 3 Credits
Course Tags: Environmental Studies Elective, Environmental Studies Major Elective, Environmental Studies: Social Science, Magis Core: Interdisciplinary
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.

EVST 2900 Special Topics (Shell) 3 Credits

EVST 3980 Internship 1-3 Credits
Course Tags: Environmental Studies Elective
Prerequisite(s): Completion of three environmental studies courses.
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. Enrollment by permission only.

EVST 3990 Independent Study 1-3 Credits
Course Tags: Environmental Studies Elective
Prerequisite(s): Three environmental studies program courses; 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 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. Enrollment by permission only.

EVST 4001 Environment Workshop 3 Credits
Course Tags: Environmental Studies Elective, Environmental Studies: Capstone
Prerequisite(s): Junior standing.
This course is a capstone course for students in the Environmental Studies program but is also open to all juniors and seniors. It centers on a semester-long interdisciplinary project that examines a particular environment-related issue and proposes practical solutions.

Film, Television, and Media Arts (FTMA)

FTMA 1010 Introduction to Film Studies 3 Credits
Course Tags: Graphic Design: Film and Television
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.

FTMA 1011 Introduction to Film and Video Production 3 Credits
Course Tags: Educational Studies Cognate, Sports Media Elective
Fee: $130 FTM Materials Fee
This course introduces and familiarizes students with the theoretical background and technical skills needed to produce film, video and new media content. Structured around classroom discussions, screenings, and hands-on equipment workshops, this course encourages students to experiment with the moving image and find their unique creative voice, all within a supportive environment. Students will learn the proper use of a professional camera and sound and lighting equipment in order to complete a series of audio and video exercises, culminating in the production of group short films.

FTMA 1101 American Cinema History 3 Credits
Course Tags: American Studies: Gateway, Graphic Design: Film and Television
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.

FTMA 1102 American Television History 3 Credits
Course Tags: Graphic Design: Film and Television
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.

FTMA 1103 Global Cinema 3 Credits
Course Tags: Digital Journalism Elective, Diversity, Equality, and Inclusion Minor Elective, Graphic Design: Film and Television, International Studies Elective
In this course, students engage with different expressions of "global cinema": films intended for international audiences. This course pays attention to key films, filmmakers, and moments in film history, across Europe, Asia, Latin America, the Middle East, and Africa. With a particular focus on international art cinema, this course gives students the historical context and critical tools to appreciate and analyze diverse cinematic styles. Dedicated weekly screenings create the theatrical experience for which these films were intended.

FTMA 1104 Documentary Cinema 3 Credits
Course Tags: Graphic Design: Film and Television
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.

FTMA 1105 Asian New Waves in World Cinema 3 Credits
An exploration of major filmmakers, themes, and movements in post-war Asian cinema. While recognizing the significance of popular genres and commercial production, this course focuses on the dynamic emergence of Asian art films in the context of world cinema. Through film viewing, class discussion, and essay writing, students explore themes such as family, womanhood, youth, exile, violence, and memory, examining both the distinctive “Asianness” of the films and their resonances with other works of world cinema. Students learn to analyze cinematic language and styles, while taking into consideration filmmakers' responses to cultural traditions, political and socio-economic changes, and technological shifts.

FTMA 1120 Beginning Screenwriting for Film and Television 3 Credits
This introductory course introduces students to screenwriting by developing their understanding of the structure of short and long form narrative film. The main goal of the course is to develop creative capacities in storytelling and written expression while introducing students to fundamental principles of conventional fiction and television screenwriting. This course utilizes lecture, discussion, screenings, readings, and reflective essay writing to grapple with issues of structure, characterization, conflict, and aesthetics. Students will participate in regular writing workshops and produce a complete draft of a short film screenplay by the end of the course.

FTMA 1122 Writing for Scripted Television 3 Credits
Fee: $130 FTM Materials Fee
In this course, students will learn the basics of episodic television writing, from drama and comedy, to sketch and sitcom. Through screenings and writing workshops, the class will explore story structure, character development, season arcs and how to write a pilot episode. Students will also analyze the form of traditional television series, as well as newly emerging variations. Finally, this course will give students the realistic experience of working in a television “writers’ room,” with the entire class collaborating on the creation of an original pilot episode.

FTMA 1130 Film Editing and Media Construction 3 Credits
Fee: $130 FTM Materials Fee
This course explores how filmmakers create meaning through the assembly of images and sound, ranging from the classical-Hollywood narrative film, to more experimental modes of time-based storytelling. Students will examine the theoretical conventions of motion picture editing through screenings, discussions and hand-on projects, including the filming their own short films with professional camera and sound equipment and editing in Adobe Premiere Pro.

FTMA 1136 Sound Production: Digital Audio Workstation 3 Credits
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. Crosslisted with MUSC 1136 .

FTMA 1137 Acting for the Camera 3 Credits
Prerequisite(s): THTR 1030.
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. Crosslisted with THTR 2237.

FTMA 1140 Introduction to Animation 3 Credits
Fee: $130 FTM Materials Fee
This course introduces students to the essentials of storytelling in animation: hand- drawn and computer-generated 2D, stop-motion, 3D-modeling, storyboards and more. Through screenings of animated films, episodic television and more experimental shorts, students will explore the aesthetics, historical contexts and current trends of the medium. They'll apply this knowledge towards the production of their own shot films, including experiments in hand-drawn, stop motion and computer-generated animation.

FTMA 1150 Entertainment Technology 3 Credits
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 will earn one credit through enrollment in THTR 1952.

FTMA 1152 Costume Construction for Stage & Screen 3 Credits
Learn to make amazing garments, for the stage, for film, or for your own purposes! Costume construction is a vital career in the entertainment industry, combining creativity and hands-on craftmanship. Through readings, lecture, discussion, and hands-on lab work, students will be introduced to the principles of theatrical garment construction, and learn basic costume-making techniques. Using the textbook as a lab notebook, students will collect sewing samples, notes, textile samples, measurement charts and paper pattern-making, which will then inform their final project: a sewn garment. Students will participate on Wardrobe Crew for a Theatre Fairfield production or a Capstone Film.

FTMA 1154 Theatrical Makeup for Stage & Screen 3 Credits
Expert application of theatrical makeup is a critical tool for the professional actor, and a rewarding career path in theatre and film. Through lecture, discussion, and hands-on lab work you will be introduced to the principles of stage makeup design and application. Combining research, critical analysis, and hands-on techniques, students will develop makeup application skills using their own faces. Whether as a theatre artist or as an audience member, this class will lead to more sophisticated understanding of makeup in both theatre and film. Students will participate on Makeup/Hair Crew for a Theatre Fairfield production or a Capstone Film.

FTMA 1155 Design for Stage & Screen 3 Credits
Course Tags: Graphic Design: Theatre
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.

FTMA 1232 Television Studio Production 3 Credits
Course Tags: Magis Core Exploration: VPA
This course offers a theoretical and hands-on introduction to the art and technology of television production within both a studio and field-based context. Students receive instruction on the creative and aesthetic use of the elements and technology of 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. Previously FTMA 2232.

FTMA 1950 Production Practicum 1 Credit
In this course, restricted to Film, Television, and Media Arts majors and minors, students will receive credit for their participation on approved student film and media productions, both on-set and in-post, beyond their own classroom assignments. This class will provide students with an opportunity to reflect on their production experiences, through written assignments. Enrollment by permission only. May be taken up to three times.

FTMA 2131 Producing for Film and Television 3 Credits
Course Tags: Sports Media Elective
This course is designed to enhance students' understanding of the feature film and television industry. Students will be acquainted with common industry business practices and learn about how certain films and television shows are developed and produced, while at the same time expanding their critical understanding of the industry at large. Particular attention will be paid to how corporate mandates in film and television influence creative processes. In this course the student will attain the "language of TV and film" when discussing and creating concepts viable for script development in these forms. We will also analyze the production values of shows currently on TV and Films currently in theaters: casting, directing, costume, music, editing, etc. This course is aimed on students getting an overview/introduction of how the TV and Film business works and learning how to sell it. We will focus both on the American & International markets.

FTMA 2201 Filmmaker Studies 3 Credits
Course Tags: Magis Core Exploration: VPA
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 pair's or group's) body of work, examining major themes, techniques, motifs, topics, collaborations. In so doing, it seeks to measure and evaluate their contribution to the history and craft of film. May be taken multiple times with different topics.

FTMA 2204 African American Cinema 3 Credits
Course Tags: American Studies Upper Level, Black Studies Focus Course, Graphic Design: Film and Television
Prerequisite(s): FTMA 1010.
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.

FTMA 2206 American Film: Decades 3 Credits
Course Tags: American Studies: Gateway, Graphic Design: Film and Television
Prerequisite(s): FTMA 1010.
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."

FTMA 2207 Film Genres 3 Credits
Course Tags: Graphic Design: Film and Television
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. May be taken multiple times with different topics.

FTMA 2208 Television Genres 3 Credits
Prerequisite(s): FTMA 1010 or FTMA 1011.
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.

FTMA 2209 Gender, Sexuality, and Cinema 3 Credits
Course Tags: Women, Gender, and Sexuality Studies: Gender Focused
Prerequisite(s): FTMA 1010.
This course examines how American movies' representations of gender and sexuality have been used to both construct and subvert cultural mores. We will consider how queer, trans, and feminist perspectives have rethought cinematic language and challenged societal attitudes through storytelling. From "coded" sexual references in classical films, to New Hollywood-era films, to today's thriving independent cinema, this representational genealogy includes both condescending myth and bold truth-telling.

FTMA 2220 Feature Film Screenwriting 3 Credits
Prerequisite(s): FTMA 1120.
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 FTMA 1120, 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.

FTMA 2230 Lighting and Cinematography 3 Credits
Fee: $130 FTM Materials Fee
Prerequisite(s): FTMA 1011.
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.

FTMA 2231 Documentary Film Production 3 Credits
Course Tags: Sports Media Elective
Fee: $130 FTM Materials Fee
This course is designed to develop skills and critical perspectives needed to produce character-driven documentary work. Through lectures, discussions, screenings, readings, and hands-on demonstrations, students will learn about documentary workflow, as well the medium's potential to promote social activism and awareness. Students will write, produce, direct, and edit short documentaries and, by periodically presenting their own work, students will engage one another in discussions and develop skills in constructive critique.

FTMA 2232 Scripted Television Production 3 Credits
Course Tags: Magis Core Exploration: VPA
Prerequisite(s): FTMA 1011 or FTMA 1122.
The modes of scripted television storytelling are varied: 30-minute single-camera comedies, cinematic hour-long dramas, live sketch shows and three-camera sitcoms, to name a few. This course examines the history, aesthetics, and production practices of of scripted television production, contextualizing each sub-genre within the broader trends of the film and television industry. In addition to viewing and analyzing television episodes, students will learn the essentials of television production: camera/ sound/ lighting, directing actors, producing and post-production workflows. Students will direct their own single-camera mini-episode, as well as collaborate on the major production of a full-length scripted episode.

FTMA 2234 Directing for Film, TV, Media 3 Credits
Course Tags: Sports Media Elective
Fee: $130 FTM Materials Fee
Prerequisite(s): FTMA 1011 or FTMA 1130.
This course explores what a film director does, how they manipulate and manage 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 their role with crew and actors, and in the development of a film from start to finish, are studied from practical and theoretical perspectives.

FTMA 2235 New Media Workshop 3 Credits
Course Tags: Sports Media Elective
Fee: $130 FTM Materials Fee
The digital revolution has arrived for the production of moving images, from the omnipresence of photo-realistic visual effects and animation in movies, to the rise of virtual and augmented reality tech as storytelling venues. Students will examine the historical context and cultural impact of the VFX, VR and AR revolution, on their way to developing and making cutting-edge short form media projects, using Adobe After Effects, Unity, VR cameras, VR/AR headsets, and beyond.

FTMA 2240 Directing Animated Film and Television 3 Credits
Course Tags: Magis Core Exploration: VPA
This course explores how animated films and television shows are made in pre- production - from story development, to storyboarding- all before any actual animation begins. We will explore the role of the director in envisioning and navigating this process, as well as the historical and cultural context within which animated work is being made. Students will watch films and television episodes, analyze storytelling techniques and gain insight into the production process behind the scenes. Throughout the semester, students will act as writer, director, storyboard artist, editor and producer on their own "animatic" for an original animated short.

FTMA 2245 Survey of Film Music: Hearing the Movies 3 Credits
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. Crosslisted with MUSC 2245.

FTMA 2270 Latin American Cinemas 3 Credits
Course Tags: Graphic Design: Film and Television, Latinx, Latin American and Caribbean Studies Minor Elective
In this course we examine Latin American and Latinx films to see how artists use cinema to capture their realities, create worlds, challenge stereotypes and social norms, and further complicate stories beyond commercial cinemas. Through consistent practice with the written word and manipulating film images making video essays, we examine the crucial importance of self-representation, and diversity of perspectives in front of and behind the camera. In addition, we study the structures of distribution and exhibition that shape the unequal visibility of some cinemas over others. As an interdisciplinary course that bridges the fields of Spanish, Film Studies, and Film Production, you will work with theoretical approaches, closely study the mechanics of film, and later adapt and apply film analysis to create video essays. Through analysis and application, we explore Latin American cinemas as highly political and culturally-entrenched vehicles circulating unequally throughout the world.

FTMA 2271 Italian Cinema 3 Credits
Course Tags: Italian Studies: Elective, Italian Studies: Italy-Focused
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 1980s and 1990s. Students analyze the works of Rossellini, De Sica, Fellini, Visconti, Germi, Antonioni, Wertmüller, Leone, Pasolini, Moretti, Benigni, and others. Crosslisted with ITLN 2271.

FTMA 2290 Italian American Cinema 3 Credits
Course Tags: Italian Course Taught in English, Italian Studies: Elective, Magis Core: Writing Across Curriculum
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 film-making of Italian American screenwriters and directors. This class is taught in English. Crosslisted with ITLN 2290.

FTMA 2900 FTMA Special Topics in Cinematography and Post Production 3 Credits
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 multiple times with different topics.

FTMA 3980 Internship 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 only. May be taken for FTM major credit up to three credits.

FTMA 3990 Independent Study 1-3 Credits
Open to students majoring or minoring in Film, Television, and Media Arts, this course allows a student to pursue a topic in film, television, or media arts in-depth and in close consultation with a faculty member of the Film, Television, and Media Arts program. Enrollment by permission only. May be taken for FTMA major credit up to three credits.

FTMA 4998 Capstone Seminar I 3 Credits
Prerequisite(s): Junior standing.
This course provides an opportunity for Film, Television, and Media Arts majors in their junior year to envision and begin on the production of 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 junior year. The capstone project is completed with FTMA 4999 in the fall semester of the student's senior year. Open to FTM majors only.

FTMA 4999 Capstone Seminar II 3 Credits
Prerequisite(s): FTMA 4998.
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.

Finance (FNCE)

FNCE 2101 Introduction to Finance 3 Credits
Fee: $150 DSB Financial Technology Fee
Prerequisite(s): ACCT 1011, ECON 1011, ECON 1012, MATH 1016 or higher, 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.

FNCE 2190 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.

FNCE 2980 Internship 1 Credit
Prerequisite(s): Sophomore standing.
Students may take up to two semesters of a department-approved internship. Students must be matriculated in the Dolan School of Business and have a GPA of 2.5 or higher.

FNCE 3200 Global Capital Markets 3 Credits
Course Tags: International Studies Elective
Prerequisite(s): FNCE 2101, 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.

FNCE 3210 Principles of Investment 3 Credits
Prerequisite(s): FNCE 2101, 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.

FNCE 3215 Financial Management 3 Credits
Prerequisite(s): FNCE 2101, 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.

FNCE 3235 Financial Technology 3 Credits
Prerequisite(s): FNCE 3210 or FNCE 3215.
Financial Technology commonly known as FinTech in the marketplace refers to technological innovation in the financial industry. FinTech entrepreneurs are attempting to change how the financial services are delivered to the users. The class will cover overview of FinTech industry and examine FinTech application in wealth management and payments as well as cryptocurrency including Bitcoin. It will cover FinTech background, ecosystem, evolutions, FinTech and financial institution and collaboration with Fintech entrepreneurs. The course will also cover how FinTech reshaped asset management and financial planning, cryptocurrency and blockchain and its regulation.

FNCE 3340 Sustainable Investing 3 Credits
Course Tags: Environmental Studies Elective, Environmental Studies Major Elective, Environmental Studies: Social Science
Prerequisite(s): Select one course from: ECON 1011; ECON 1012; FNCE 2101.
This course provides students with a broad understanding of sustainable investing, including three generalized categories of sustainable investing, namely ESG Investing, Socially Responsible Investing, and Impact Investing. Students will explore how and why investors and fund managers might employ/offer each of these three categories of sustainable investing. This exploration includes the financial and impact considerations for each category of sustainable investing. Students will also learn how incorporating environmental, social, and governance criteria can improve returns and/or reduce risk. Additional topics covered include shareholder activism, religious values investing, and stakeholder value. Students will learn about sustainable investing through both top down (investor lens) and bottom up (company lens) approaches. This course provides students with hands on experience researching, analyzing, and developing investment recommendations, which will serve to improve their business writing, analytical skills, and technical competency in sustainable investing.

FNCE 3980 Internship 3 Credits
Prerequisite(s): Junior standing.
Students may take up to two semesters of a department-approved internship. Students must be matriculated in the Dolan School of Business and have a GPA of 2.5 or higher.

FNCE 4240 International Financial Management 3 Credits
Course Tags: International Studies Elective
Prerequisite(s): FNCE 3215.
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.

FNCE 4300 Seminar in Fixed Income 3 Credits
Prerequisite(s): FNCE 3210 or FNCE 3215.
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.

FNCE 4305 Financial Trading and Strategic Simulations 3 Credits
Course Tags: Business Elective, Finance Elective
Prerequisite(s): FNCE 3210, senior standing.
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.

FNCE 4310 Portfolio Analysis 3 Credits
Prerequisite(s): FNCE 3210.
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.

FNCE 4315 Futures and Options Markets 3 Credits
Prerequisite(s): FNCE 3210.
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.

FNCE 4320 Financial Modeling 3 Credits
Prerequisite(s): FNCE 3210 or FNCE 3215.
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.

FNCE 4325 Seminar in Real Estate 3 Credits
Course Tags: Finance Elective
Prerequisite(s): FNCE 3210 or FNCE 3215.
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.

FNCE 4330 Case Studies in Finance 3 Credits
Prerequisite(s): FNCE 3210, FNCE 3215, senior standing.
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.

FNCE 4390 Seminar in Finance 3 Credits
Course Tags: Finance Elective
This course involves contemporary or specialized topics in finance. Seminars are open to finance majors only; prerequisites may vary.

FNCE 4990 Independent Study 3 Credits
This course offers students the opportunity for independent study in contemporary or specialized topics in finance. Independent studies are open to finance majors only and require senior standing and a GPA of 2.5 or higher.

FNCE 5400 Principles of Finance 3 Credits
Prerequisite(s): ACCT 5400, DATA 5400.
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.

FNCE 6500 Stakeholder Value 3 Credits
Prerequisite(s): FNCE 5400.
This course examines business decision-making with the aim of creating and managing value for stakeholders. 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 stakeholder value. Topics include investment and strategic financial decision-making. A business simulation facilitates the learning process.

FNCE 6530 Corporate Finance 3 Credits
Prerequisite(s): FNCE 5400.
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.

FNCE 6540 Investment Analysis 3 Credits
Prerequisite(s): FNCE 5400.
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 trade-offs essential to the valuation process.

FNCE 6545 Portfolio Management 3 Credits
Prerequisite(s): FNCE 6540.
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.

FNCE 6555 International Financial Management 3 Credits
Prerequisite(s): FNCE 6530.
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.

FNCE 6560 Global Financial Markets and Institutions 3 Credits
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.

FNCE 6565 Derivative Securities 3 Credits
Prerequisite(s): FNCE 6540 (concurrency allowed).
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.

FNCE 6570 Fixed Income Securities 3 Credits
Prerequisite(s): FNCE 6540.
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.

FNCE 6575 Capital Budgeting 3 Credits
Prerequisite(s): FNCE 6530.
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.

FNCE 6580 Financial Risk Management 3 Credits
Prerequisite(s): FNCE 6540.
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.

FNCE 6595 Research Methods in Finance 3 Credits
Prerequisite(s): FNCE 6540.
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.

FNCE 6900 Contemporary Topics Seminar 3 Credits
Prerequisite(s): FNCE 6530, FNCE 6540.
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.

FNCE 6990 Independent Research Seminar 3 Credits
Prerequisite(s): FNCE 6595.
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.

FNCE 6991 Blockchain and Digital Assets 3 Credits
The sudden rise in the value of Bitcoin and other digital assets focused the world's attention on cryptocurrencies as a means of payment. Blockchain technology powers Bitcoin and has been hyped as the next new, transformative technology. This class will first discuss the technical underpinnings of blockchain and review key concepts such as decentralization and consensus algorithms. The class will then discuss practical applications of blockchain technology. It will then then examine blockchain as an asset and review the dynamics of the cryptocurrency markets. It will conclude with the discussion of the future of blockchain.

FNCE 6992 Decentralized Finance 3 Credits
Prerequisite(s): FNCE 6991.
Decentralized finance (DeFi) allows parties to trade in a peer-to-peer, decentralized manner by replacing financial institutions and other intermediaries with blockchain-based smart contracts and by replacing traditional, physical currencies (e.g. U.S. dollars) with cryptocurrency (e.g. stable-coins pegged to a physical currency). This course will examine how FinTech companies are disrupting the traditional financial services industry and assess the pros and cons of these new technologies. Students in this course will also survey relevant aspects of banking and securities law, with a focus on current regulatory issues pertaining to DeFi and considerations of the future regulatory landscape.

FNCE 6993 Algorithmic Trading 3 Credits
This class introduces the necessary background knowledge and processes to design and implement algorithmic trading models including an introduction to financial markets, mechanics, participants, order types and execution, microstructure, and more. The course walks students through the process of generating trading strategies, quantifying the trading process, risk-based modeling concepts, back-testing and optimization techniques, technology and infrastructure, regulatory compliance, and key metrics of algorithmic trading model performance evaluation.

FNCE 6994 Ethical Considerations in and Regulation of FinTech 3 Credits
Prerequisite(s): FNCE 6992 (concurrency allowed).
While FinTech provides the world of finance with exciting new opportunities and innovations, they come with a new set of ethical considerations and potential new regulations. Ethical issues include potential breach of privacy of the data obtained through social media and other means. Artificial intelligence and machine learning and the use of large datasets of proprietary data could unintentionally lead to discrimination and adverse effects on diversity and inclusion efforts. Since much of the FinTech applications are linked to the internet, avoiding cyberattacks poses a large risk to successful implementation of any models. Successful leaders in the field of FinTech must understand ethical considerations associated with FinTech. It is also crucial for the manager to understand current regulation of FinTech and anticipate possible new regulation. This course will consider these and other ethical and legal considerations associated with FinTech.

French (FREN)

FREN 1110 Elementary French I 3 Credits
Course Tags: Magis Core: Writing Across Curriculum
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.

FREN 1111 Elementary French II 3 Credits
Course Tags: Magis Core: Writing Across Curriculum
Prerequisite(s): FREN 1110 or placement in course.
This course, a continuation of FREN 1110, 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.

FREN 2210 Intermediate French I 3 Credits
Course Tags: Latinx, Latin American and Caribbean Studies Minor Elective, Magis Core: Writing Across Curriculum
Prerequisite(s): FREN 1111 or placement in course.
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.

FREN 2211 Intermediate French II 3 Credits
Course Tags: Latinx, Latin American and Caribbean Studies Minor Elective, Magis Core: Writing Across Curriculum
Prerequisite(s): FREN 2210 or placement in course.
This course, a continuation of FREN 2210, 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.

FREN 2219 French Syntax and Expression 3 Credits
Course Tags: Magis Core: Writing Across Curriculum
Prerequisite(s): FREN 2211 or placement in course.
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.

FREN 2220 Topics in Language and Culture 3 Credits
Prerequisite(s): FREN 2211 or placement in course.
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. Frequent compositions or other homework , 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.

FREN 2230 Topics in French Classical Theater 3 Credits
Course Tags: Magis Core Exploration: Literature
French 2230 focuses on the history and study of French Classical Theater of the 17th century. Besides learning the history of French theater, you will also learn about the various literary genres and versification, as you read two classical plays in their entirety. Some of the class time will be devoted to the study of complex and advanced grammar and syntax, which you will practice by completing weekly assignments. All class lectures and discussions will be in French.

FREN 3251 Culture and Civilization of France and the Francophone World I 3 Credits
Prerequisite(s): FREN 2211.
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.

FREN 3252 Culture and Civilization of France and the Francophone World II 3 Credits
Prerequisite(s): FREN 2211.
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.

FREN 3265 French Translation Workshop 3 Credits
Prerequisite(s): FREN 2219 or FREN 2220 or FREN 2230.
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.

FREN 3267 French Commercial Culture 3 Credits
Prerequisite(s): FREN 2219 or FREN 2220 or FREN 2230.
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.

FREN 3271 Contemporary French Press and Media 3 Credits
Prerequisite(s): FREN 2219 or FREN 2220 or FREN 2230.
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.

FREN 3980 Internship 3 Credits
Prerequisite(s): FREN 2219 or FREN 2220 or FREN 2230.
The internship program gives students first-hand experience in the fields of translation, interpretation, cataloging, public relations, advertising, or 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.

FREN 3990 Independent Study 3 Credits
Prerequisite(s): FREN 2219 or FREN 2220 or FREN 2230.
Students undertake readings and studies in a specialized area of French, under the direction of a member of the faculty. Designed to fill the special needs of specific students, this course is offered at the discretion of the department chair. Enrollment by permission only.

FREN 4301 Survey of Literature in French I 3 Credits
Course Tags: Magis Core Exploration: Literature
Prerequisite(s): FREN 2219 or FREN 2220 or FREN 2230.
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.

FREN 4302 Survey of Literature in French II 3 Credits
Course Tags: Magis Core Exploration: Literature
Prerequisite(s): FREN 2219 or FREN 2220 or FREN 2230.
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 considers the development of modern French literature.

FREN 4305 French and Francophone Women Writers 3 Credits
Course Tags: Magis Core Exploration: Literature, Women, Gender, and Sexuality Studies: Gender Focused
Prerequisite(s): FREN 2219 or FREN 2220 or FREN 2230.
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.

FREN 4366 Film and Literature in French 3 Credits
Course Tags: Magis Core Exploration: Literature
Prerequisite(s): FREN 2219 or FREN 2220 or FREN 2230.
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 work .

FREN 4999 Capstone Seminar 3 Credits
Prerequisite(s): 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.

German (GRMN)

GRMN 1110 Elementary German I 3 Credits
Course Tags: Magis Core: Writing Across Curriculum
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.

GRMN 1111 Elementary German II 3 Credits
Prerequisite(s): GRMN 1110.
This course, a continuation of GRMN 1110, 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.

GRMN 2210 Intermediate German I 3 Credits
Prerequisite(s): GRMN 1111.
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.

GRMN 2211 Intermediate German II 3 Credits
Prerequisite(s): GRMN 2210.
This course, a continuation of GRMN 2210, 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.

GRMN 2220 Topics in Language and Culture 3 Credits
Prerequisite(s): GRMN 2211.
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.

GRMN 2230 Business German 3 Credits
Prerequisite(s): GRMN 2211.
This course will present you with an introduction to the German business world, the larger context within which it is nestled (political/economical system) and provide you with a basic, practical set of tools (vocabulary, cultural knowledge) to help you function in various business settings. The course curriculum is designed around discussions of economic and political issues and around “hands-on” experience with practical everyday situations, which you will practice in role-plays /group work (phone etiquette, basic sales dialogs, contact with customers) and by completing written assignments (resume, e-mails, business letters, etc.).

GRMN 3240 German Children’s + Youth Literature 3 Credits
Course Tags: Magis Core Exploration: Literature
Prerequisite(s): GRMN 2211.
This course focuses on the representation of childhood in juvenile literature in various genres (songs, stories, nursery rhymes, fairy tales, novels). The readings encompass traditional children’s literature, and contemporary works dealing with similar themes plus issues of identity and self-realization. We will read and reflect on literary and cultural forms of children’s stories and fairy tales written by authors such as Grimm, Busch, Hoffmann, Kästner and Hartling. Language and writing skills will be enhanced through detailed study of the texts as well as producing a storybook for children in German. The class is taught in German.

GRMN 3241 German Cinema 3 Credits
Course Tags: Magis Core Exploration: Literature
Prerequisite(s): GRMN 2211.
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.

GRMN 3251 German Civilization and Culture I 3 Credits
Prerequisite(s): GRMN 2211.
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.

GRMN 3252 German Civilization and Culture II 3 Credits
Prerequisite(s): GRMN 2211.
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.

GRMN 3262 Survey of German Literature 3 Credits
Course Tags: Magis Core Exploration: Literature
Prerequisite(s): GRMN 2211.
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.

GRMN 3980 Internship 3 Credits
Prerequisite(s): GRMN 2211.
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.

GRMN 3990 Independent Study 3 Credits
Prerequisite(s): GRMN 2211.
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. Enrollment by permission only.

GRMN 4999 Capstone Seminar 3 Credits
Prerequisite(s): Senior standing.
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.

Graphic Design (GDSN)

GDSN 3201 Graphic Design I: Making Meaning 3 Credits
Prerequisite(s): Completion of four preparatory classes in the Graphic Design minor.
We are literally surrounded by graphic design, from billboards to soda cans, from social media posts 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 Lightroom software.

GDSN 3202 Graphic Design II: Clients and Collaboration 3 Credits
Prerequisite(s): GDSN 3201.
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"? Students 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. They 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. Students will continue to develop expressive skills using text, image and layout. They 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 (GREK)

GREK 1111 Introductory Ancient Greek 3 Credits
This course is an introduction to the ancient Greek language, the mode of communication that defines the literature and culture of ancient Greece. No previous knowledge of Greek is required. This course will start from the very basics of the Greek language (i.e., alphabet, parts of speech, inflection, pronunciation) and eventually build towards a strong command of Greek vocabulary, grammar, and syntax. The goal of introductory Greek is to build a solid foundation for reading actual ancient Greek texts. As such, the acquisition of those linguistic skills, elucidated and practiced through classroom instruction and examples in our textbook, will also be reinforced by the reading of select prose passages in Greek.

GREK 2001 Intermediate Ancient Greek 3 Credits
This course builds on the grammatical and syntactic knowledge base built in GREK 1111 or in previous iterations of GREK 2xxx through reading unaltered Greek texts and applying concepts and skills to the actual words of the ancients. Specific language skills that we will develop include recognizing syntactic patterns and larger narrative structures in connected passages of prose or poetry; reading ancient Greek at sight with confidence; reading with increased speed while remaining attentive to very close analysis of assigned passages; and understanding how to use lexica, commentaries, and other scholarly instruments in reading an edition of an ancient text.

Health Studies (HLST)

HLST 1101 Introduction to Health Studies 3 Credits
Course Tags: Magis Core: Interdisciplinary
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 US healthcare system will also be assessed. This course is open to health studies minors and public health majors only. Nursing majors may not take this course.

HLST 3201 Health Communication for Healthcare Professionals 3 Credits
Course Tags: Health Studies: Social Science
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. Open only to: Nursing majors, as well as Public Health and Social Work majors/minor, and Health Studies minors or with professor approval.

HLST 3310 Global Health: A Social Justice Perspective 3 Credits
Course Tags: Health Studies: Traditions, Delivery, and Ethics
This course will provide a basic, multidisciplinary understanding of the context for and leading problems in global health with an added emphasis on social justice dimensions and leadership. Both faculty and external experts will speak. Topics will include: globalization, surveillance and response in global health, health inequity, health metrics, the governance of global health systems; global health finance and economics; the workforce for global health; public-private partnerships; global supply chains; humanitarian conflict; HIV; TB; malaria; neglected tropical diseases; emerging infections; vaccines; global health security; non-communicable diseases; maternal and child health, injury and violence; environmental health; and global health law.

HLST 3900 Special Topics (Shell) 3 Credits
This course will focus on a topic relevant to a specific area within the broad field of health-related content. This is intended as an initial one-time offering, after which, should the course be determined as desired to be offered on a regular basis, will be given a permanent number in the Health Studies program (or other department as deemed appropriate). As the content of a special topics course will vary with time and related to current important content, students may take the class more than once during their tenure at Fairfield University.

HLST 4999 Health Studies Capstone 3 Credits
Prerequisite(s): HLST 1101, completion of or concurrent enrollment in three health studies electives, senior standing.
This capstone allows the student to integrate and reflect on the wealth of information learned in HLST 1101 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.

Healthcare Administration (HCAD)

HCAD 6100 Introduction to the United States Healthcare System 3 Credits
This course provides an overview of the evolving structure of the US healthcare delivery system. Since the US healthcare system has been periodically changed in diverse aspects over the decades, its dynamic mechanism should be understood. Particularly the healthcare system encompasses organizations, management, finance, policy, and technology. This course introduces students to the complexity of healthcare, challenges of leadership, the key stakeholders, and the current state of healthcare in the US. As the introductory course for the MHA program, this hybrid course will allow student to acclimate to the program through multiple learning modalities and activities. Collaboration and team building, critical success factors in healthcare, will be a focus of the on-site portion of the course. The cohort will be introduced to many key aspects of healthcare administration as well as acclimating to the rich learning environment of Fairfield University.

HCAD 6200 Healthcare Reimbursement and Organizational Performance 3 Credits
This course is focused on the complex topic of healthcare reimbursement as the primary income sources for healthcare organizations. Additionally, the course will explore the dynamic concepts of payer sources with the emphasis on reimbursement through government, commercial and private payers. Healthcare administrators and leaders in must possess a firm grasp of sources of revenue and the rapidly changing environment. Decision-making related to organizational goals will be explored in the context of revenue. The course supports students to understand how to apply financial decision-making, strategic, and operational decisions.

HCAD 6951 Healthcare Administration Practicum 3 Credits
Prerequisite(s): HCAD 6100.
In the MHA Practicum, the student will identify a healthcare environment for a 150-hour immersion learning opportunity. Paired with community partners, students will observe and participate in learning how the theoretical concepts and skills of healthcare leadership are implemented in practice. The student will focus on the competencies of the program such as organizational behavior, management, human resources, project management, systems improvement, financial strategies, information technology and performance management as appropriate to the clinical site. Students will identify one practice partner or divide time in multiple areas to achieve the objectives of the practicum. The student will incorporate reflections about social justice, diversity and inclusion, and caring for communities and individuals into their overall reflections on the Practicum experience. Students with current or recent experience in healthcare leadership may apply to have this course waived in consultation with the Program Director and approval of the Associate Dean.

HCAD 6999 Healthcare Administration Capstone 4 Credits
Prerequisite(s): HCAD 6100 or Program Director Approval.
The Healthcare Administration Capstone is an integrative learning experience drawing on all the disciplines and subject matter presented in the MHA Program that results in a comprehensive and relevant plan to address a current health care problem impacting a specific health care organization, institution, provider group and directed toward an at-risk community or population. The Capstone Project is a representation of the student's theoretical and applied skills developed during their course of study in the program. The capstone will be customized to the student's experiences, goals and expertise. The course will consist of 200 hours of time dedicated to the various components of project development for a healthcare organization as well as clinical conference sessions with a faculty advisor.

Hebrew (HEBR)

HEBR 1110 Elementary Hebrew I 3 Credits
Course Tags: Judaic Studies Minor
Designed for students with no prior experience with Hebrew. 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.

HEBR 1111 Elementary Hebrew II 3 Credits
Course Tags: Judaic Studies Minor
Prerequisite(s): HEBR 1110.
This course, a continuation of HEBR 1110, 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.

HEBR 2210 Intermediate Hebrew I 3 Credits
Course Tags: Judaic Studies Minor
Prerequisite(s): HEBR 1111.
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.

HEBR 2211 Intermediate Hebrew II 3 Credits
Course Tags: Judaic Studies Minor
Prerequisite(s): HEBR 2210.
This course, a continuation of HEBR 2210, 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 (HIST)

HIST 1100 Origins of the Modern World Since 1500 3 Credits
This 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.

HIST 1102 China, Japan, and Europe 3 Credits
Course Tags: Asian Studies Elective, Diversity, Equality, and Inclusion Minor Elective, International Studies Elective
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.

HIST 1103 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.

HIST 1104 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."

HIST 1105 Utopian Ideas and Practice Since 1500 3 Credits
This course is a history of past futures: what people imagined would, could, or should happen once humanity overcomes all social ills and superstition. Utopian ideas and projects have varied greatly across the past five centuries of European and American history, as we will see. We will compare them according to specific criteria (who could join?), and more broadly, by the societies that inspired them. The course moves from early modern Christian utopians (Heavens on Earth), to peaceful, secular groups in the nineteenth century (Liberty vs. Equality), to the twentieth century's "age of extremes" (Secular Millenarians). Texts and films range from comedy (Thomas More's 1516 ur-text, Utopia) to societies that we today regard as dystopias (the USSR). The course is asynchronous, but for a handful of zoom discussions with the professor, and recorded discussions with group members.

HIST 1106 Empires in World History 3 Credits
Course Tags: International Studies Elective, Islamic World Studies: Humanities
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 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.

HIST 1107 The Silk Road: Crossroads of Civilizations 3 Credits
Course Tags: History Before 1750
This course introduces the civilizations on the Silk Road from ancient times to medieval times, the reign of the Mongol Empire, and from then to the present. It explores how the Silk Road has been a network of trade routes connecting China and Central Asia with the Middle East and Europe, and why today "The Belt and Road Initiative (BRI)" is at the center of attention in a more global context. This course approaches the content through interdisciplinary methods to provide a more comprehensive introduction to the civilizations on the Silk Road.

HIST 1110 Modern Europe: From Humanism to Hitler 3 Credits
Course Tags: European History, History Before 1750
This course surveys the history of modern Europe from the late Middle Ages up to the year 1945. Beginning with the cultural and religious upheavals of the Renaissance, the Reformation, and Wars of Religion, it proceeds to examine the political transformations wrought by Absolutism, the Enlightenment, the French Revolution, and the Napoleonic Wars. It then examines the emergence of modern political ideologies such as liberalism, conservatism, and socialism, the development of nationalism and imperialism, the outbreak of World War I, the eruption of the Bolshevik Revolution, the interwar emergence of Fascism and Nazism, and the eruption of World War II.

HIST 1112 Germany Between Dictatorship and Democracy 3 Credits
Course Tags: German Course Taught in English, Judaic Studies Minor
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.

HIST 1128 Renaissance England 3 Credits
Course Tags: European History, History Before 1750
This course examines England from the later Middle Ages to the seventeenth century, during which time the essentials of the modern British state were formed. Particular emphasis will be given political and religious developments, including changes in the nature of monarchy and its relationship to feudalism, the growth of royal administration and the judiciary, the changes in warfare, the rise of Parliament, the role of the Church, and the impact of the Protestant Reformation. Also examined will be changes in economic and social patterns, as England went from an isolated half-island to a budding imperial power and center for trade.

HIST 1128X Renaissance England 3 Credits
Course Tags: European History, History Before 1750, Magis Core: Interdisciplinary
Corequisite(s): ENGL 1410X.
This course examines England from the later Middle Ages to the seventeenth century, during which time the essentials of the modern British state were formed. Particular emphasis will be given political and religious developments, including changes in the nature of monarchy and its relationship to feudalism, the growth of royal administration and the judiciary, the changes in warfare, the rise of Parliament, the role of the Church, and the impact of the Protestant Reformation. Also examined will be changes in economic and social patterns, as England went from an isolated half-island to a budding imperial power and center for trade. This course is linked with ENGL 1410X and fulfills the requirements for the interdisciplinary signature element within the Magis Core.

HIST 1146 Women's History as U.S. History 3 Credits
Course Tags: American Studies: History, Diversity, Equality, and Inclusion Minor Elective, Educational Studies Cognate, Peace and Justice Studies, Women, Gender, and Sexuality Studies: Gender Focused
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.

HIST 1188 Colonial Latin America, 1492-1800 3 Credits
Course Tags: Catholic Studies: Non-Religious Studies, History Before 1750, International Studies Elective, Latinx, Latin American and Caribbean Studies Minor Elective, Non-Western History, Peace and Justice Studies
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. Previously HIST 2288.

HIST 1189 Modern Latin America, 1800-Present 3 Credits
Course Tags: History After 1750, International Studies Elective, Latinx, Latin American and Caribbean Studies Minor Elective, Non-Western History
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. Previously HIST 2289.

HIST 2201 History of Western Science 3 Credits
Course Tags: European History, History After 1750
Prerequisite(s): One 1000-level history course.
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.

HIST 2202 Health and Healing in America, 1650-1980: History of Western Medicine 3 Credits
Course Tags: American Studies Upper Level, Health Studies: Traditions, Delivery, and Ethics, History After 1750, U.S. History
Prerequisite(s): One 1000-level history course.
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.

HIST 2203 European Society in the Middle Ages 3 Credits
Course Tags: Catholic Studies: Non-Religious Studies, European History, History Before 1750, Italian Course Taught in English, Italian Studies: Elective, Italian Studies: Italy Component
Prerequisite(s): One 1000-level history course.
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.

HIST 2205 Anti-Semitism: Medieval to Modern 3 Credits
Course Tags: Catholic Studies: Non-Religious Studies, Diversity, Equality, and Inclusion Minor Elective, European History, History Before 1750, Judaic Studies Minor
Prerequisite(s): One 1000-level history course.
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.

HIST 2210 The Third Reich 3 Credits
Course Tags: European History, German Course Taught in English, German Major or Minor Course, History After 1750, Judaic Studies Minor
Prerequisite(s): One 1000-level history course.
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.

HIST 2212 Modern Germany: From Reich to Republic 3 Credits
Course Tags: European History, German Course Taught in English, German Major or Minor Course, History After 1750, Judaic Studies Minor
Prerequisite(s): One 1000-level history course.
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.

HIST 2213 In the Wake of Destruction: Europe Since World War II 3 Credits
Course Tags: European History, History After 1750
Prerequisite(s): One 1000-level history course.
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.

HIST 2214 Modern Jewish History 3 Credits
Course Tags: European History, History After 1750, Judaic Studies Minor
Prerequisite(s): One 1000-level history course.
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.

HIST 2215 Ireland: Middle Ages to the Present 3 Credits
Course Tags: Catholic Studies: Non-Religious Studies, European History, History Before 1750, Irish Studies Elective
Prerequisite(s): One 1000-level history course.
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.

HIST 2216 Rise of the British Empire 3 Credits
Course Tags: European History, History Before 1750
Prerequisite(s): One 1000-level history course.
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.

HIST 2217 Britain and Its Empire Since 1800 3 Credits
Course Tags: European History, History After 1750, International Studies Elective
Prerequisite(s): One 1000-level history course.
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.

HIST 2220 Ancient African Civilizations 3 Credits
Course Tags: Black Studies Focus Course, History Before 1750, International Studies Elective, Non-Western History
Prerequisite(s): One 1000-level history course.
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.

HIST 2221 Hellenistic World, 336-30 BCE 3 Credits
Course Tags: European History, History Before 1750, Non-Western History
Prerequisite(s): One 1000-level history course.
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. Crosslisted with CLST 2221.

HIST 2222 The Roman Revolution 3 Credits
Course Tags: European History, History Before 1750, Italian Course Taught in English, Italian Studies: Elective, Italian Studies: Italy-Focused
Prerequisite(s): One 1000-level history course.
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. Crosslisted with CLST 2222.

HIST 2223 Roman World in Late Antiquity, 284-642 CE 3 Credits
Course Tags: European History, History Before 1750, Italian Course Taught in English, Italian Studies: Elective, Italian Studies: Italy Component
Prerequisite(s): One 1000-level history course.
The course examines the Mediterranean world from the third to seventh centuries CE. 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. Crosslisted with CLST 2223.

HIST 2224 Byzantine World 3 Credits
Course Tags: European History, History Before 1750
Prerequisite(s): One 1000-level history course.
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. Crosslisted with CLST 2224.

HIST 2225 Ancient Economics 3 Credits
Course Tags: European History, History Before 1750
This course explores the economic history of the Greco-Roman Mediterranean from the eighth century BCE to the seventh century CE. It focuses primarily on a close reading of the relevant primary sources – particularly literary, epigraphic and numismatic – providing insight into both the functioning of the ancient economy and Greco-Roman beliefs about and values concerning that economy. It also invites students to engage in the modern debate about the nature of the ancient economy, and asks them to consider whether that economy was a so-called "primitive" economy, or fundamentally like the modern economy, adjusting simply for scale. This course analyzes ancient evidence for Greco-Roman accounting techniques; debt mechanisms; price formation; coinage; travel and trade; markets and demand; and other aspects of ancient economic behavior.

HIST 2228X Renaissance England 3 Credits
Course Tags: European History, History Before 1750, Magis Core: Interdisciplinary
Corequisite(s): ENGL 1410X.
Prerequisite(s): One 1000-level history course.
This course examines England from the later Middle Ages to the seventeenth century, during which time the essentials of the modern British state were formed. Particular emphasis will be given political and religious developments, including changes in the nature of monarchy and its relationship to feudalism, the growth of royal administration and the judiciary, the changes in warfare, the rise of Parliament, the role of the Church, and the impact of the Protestant Reformation. Also examined will be changes in economic and social patterns, as England went from an isolated half-island to a budding imperial power and center for trade. This course is linked with ENGL 1410X and fulfills the requirements for the interdisciplinary signature element within the Magis Core.

HIST 2230 Early Modern France 3 Credits
Course Tags: European History, French Course Taught in English, History Before 1750
Prerequisite(s): One 1000-level history course.
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.

HIST 2235 Race in the Americas 3 Credits
Course Tags: Black Studies Focus Course, History After 1750, Latinx, Latin American and Caribbean Studies Minor Elective, Non-Western History, U.S. History
Prerequisite(s): One 1000-level history course.
This team-taught course explores the construction of race throughout the Americas. Course readings and assignments focus on Brazil, Dominican Republic, Mexico, Cuba, and Puerto Rico, among others. These places are emphasized as sharing overlapping concerns with the US, based on geography, common histories, and patterns of migration. We use an interdisciplinary approach integrating theory and research methods from history, sociology, politics, Latin American and Caribbean Studies, and Black Studies. We explore essential questions related to difference that all human societies have encountered over time. We deepen our understanding of why we categorize people, how we label them, and who decides. Crosslisted with SOCI 2135.

HIST 2237 American Prophetic Tradition 3 Credits
Course Tags: American Studies Upper Level, American Studies: History, Educational Studies Cognate, History After 1750, Peace and Justice Studies, U.S. History
Prerequisite(s): One 1000-level history course.
This 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.

HIST 2239 20th Century United States 3 Credits
Course Tags: American Studies Upper Level, American Studies: Gateway, American Studies: History, Black Studies Component Course, Educational Studies Cognate, History After 1750, U.S. History
Prerequisite(s): One 1000-level history course.
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.

HIST 2240 The Personal Is Political: Women's Activism in the 1960s 3 Credits
Course Tags: American Studies Upper Level, American Studies: History, History After 1750, Peace and Justice Studies, U.S. History, Women, Gender, and Sexuality Studies: Gender Focused
Prerequisite(s): One 1000-level history course.
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.

HIST 2242 Immigration, Race, and Ethnicity in U.S. History 3 Credits
Course Tags: American Studies Upper Level, American Studies: History, Black Studies Component Course, History After 1750, Judaic Studies Minor, U.S. History
Prerequisite(s): One 1000-level history course.
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.

HIST 2244 American Constitutional and Legal History II: 1900 to Present 3 Credits
Course Tags: American Studies Upper Level, American Studies: History, History After 1750, U.S. History
Prerequisite(s): One 1000-level history course.
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.

HIST 2245 Feminism in the United States 3 Credits
Course Tags: American Studies Upper Level, American Studies: History, Educational Studies Cognate, History After 1750, Peace and Justice Studies, U.S. History, Women, Gender, and Sexuality Studies: Gender Focused
Prerequisite(s): One 1000-level history course.
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.

HIST 2247 Family and Sexuality in U.S. History 3 Credits
Course Tags: American Studies Upper Level, American Studies: History, History After 1750, U.S. History, Women, Gender, and Sexuality Studies: Gender Focused
Prerequisite(s): One 1000-level history course.
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.

HIST 2251 The American Century: The United States and the World Since 1900 3 Credits
Course Tags: American Studies Upper Level, American Studies: Gateway, American Studies: History, Educational Studies Cognate, History After 1750, International Studies Elective, U.S. History
Prerequisite(s): One 1000-level history course.
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.

HIST 2253 Early America to 1800 3 Credits
Course Tags: American Studies Upper Level, American Studies: Gateway, American Studies: History, Educational Studies Cognate, History Before 1750, U.S. History
Prerequisite(s): One 1000-level history course.
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.

HIST 2257 Who Built America? Working People in America 3 Credits
Course Tags: American Studies Upper Level, American Studies: Gateway, American Studies: History, Educational Studies Cognate, History After 1750, Magis Core: Social Justice II, Peace and Justice Studies, U.S. History, Women, Gender, and Sexuality Studies: Gender Component
Prerequisite(s): One 1000-level history course.
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.

HIST 2262 African-American History, 1619 to 1865 3 Credits
Course Tags: American Studies Upper Level, American Studies: History, Black Studies Focus Course, Educational Studies Cognate, History Before 1750, Peace and Justice Studies, U.S. History
Prerequisite(s): One 1000-level history course.
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.

HIST 2263 Inventing Themselves: African-American Women in U.S. History 3 Credits
Course Tags: American Studies Upper Level, American Studies: History, Black Studies Focus Course, Diversity, Equality, and Inclusion Minor Elective, Educational Studies Cognate, History After 1750, Peace and Justice Studies, U.S. History, Women, Gender, and Sexuality Studies: Gender Focused
Prerequisite(s): One 1000-level history course.
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.

HIST 2264 African-American History, 1865 to Present 3 Credits
Course Tags: American Studies Upper Level, American Studies: History, Black Studies Focus Course, Educational Studies Cognate, History After 1750, Peace and Justice Studies, Sports Media Elective, U.S. History
Prerequisite(s): One 1000-level history course.
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.

HIST 2265 History of the Indian Subcontinent: Colonialism, Nationalism, and Democracy, c.1857 to Today 3 Credits
Course Tags: Asian Studies Elective, International Studies Elective, Islamic World Studies: Humanities, Magis Core: Writing Across Curriculum, Non-Western History, Peace and Justice Studies
Prerequisite(s): One 1000-level history course.
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.

HIST 2266 Gandhi and Non-Violent Revolution in the 20th Century 3 Credits
Course Tags: Asian Studies Elective, Islamic World Studies: Humanities, Magis Core: Writing Across Curriculum, Non-Western History, Peace and Justice Studies
Prerequisite(s): One 1000-level history course.
This course explores the history of the modern world through one of modernity's greatest critics, Mahatma Gandhi. Gandhi was the preeminent leader of India's anti-colonial freedom struggle from the British Empire, as well as one of the most important thinkers of the 20th century. Through an exploration of Gandhi and his world, students will examine nationalism, democracy, capitalism, and imperialism and colonialism. We will use Gandhi as a point of departure for debates about the meaning of freedom, justice, and modernity itself. The course situates Gandhi's life in an age of transformation that was foundational to the modern world.

HIST 2270 History of Global Humanitarian Action 3 Credits
Course Tags: European History, History After 1750, International Studies Elective, Peace and Justice Studies
Prerequisite(s): One 1000-level history course.
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.

HIST 2271 Introduction to Russian History, Culture, and Civilization 3 Credits
Course Tags: European History, History Before 1750, International Studies Elective, Magis Core: Interdisciplinary
Prerequisite(s): One 1000-level history course.
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.

HIST 2272 Russia, 700-1700: History and Myth 3 Credits
Course Tags: European History, History Before 1750, International Studies Elective, Russian Studies Minor: History
Prerequisite(s): One 1000-level history course.
This course is a survey of the eastern forest-steppe frontier of Europe (the territory of what is now Russia, Ukraine, and Belarus) 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.

HIST 2273 History and Culture of Central and Eastern Europe Since 1945 3 Credits
Course Tags: European History, History After 1750, International Studies Elective, Russian Studies Minor: History
Prerequisite(s): One 1000-level history course.
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.

HIST 2274 Historical Perspectives on Contemporary Global Crises 3 Credits
Course Tags: History After 1750, Humanitarian Action Minor Context Course, International Studies Elective, Non-Western History, Peace and Justice Studies, U.S. History
Prerequisite(s): One 1000-level history course.
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.

HIST 2275 Russia's Road to Revolution 3 Credits
Course Tags: European History, History Before 1750, International Studies Elective, Russian Studies Minor: History
Prerequisite(s): One 1000-level history course.
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.

HIST 2276 St. Petersburg in Russian History 3 Credits
Course Tags: European History, History After 1750, Russian Studies Minor: History
Prerequisite(s): One 1000-level history course.
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.

HIST 2277 The Global Cold War 3 Credits
Course Tags: History After 1750, Non-Western History
Conventional portrayals of the Cold War split the period into two blocs and three worlds, with a clearly marked start and finish. They frame it as a time of peace in nuclear-armed Europe and the United States, and proxy wars at the margins, in Korea, Vietnam, and Afghanistan. This course challenges these characterizations by comparing ideologies, diplomacy, technologies, and popular cultures via media from six continents, beginning in the 1920s and ending in the 2020s. We examine the Soviet- and US-led blocs as dynamic rather than monolithic alliances, and compare caricatures of the docile “Third World” to the reality of self-advocacy and struggle across the Global South.

HIST 2278 Cultural History of China's Relations with the United States 3 Credits
Course Tags: Asian Studies Elective, History After 1750, International Studies Elective, Non-Western History
Prerequisite(s): One 1000-level history course.
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.

HIST 2279 China from the Classical Time to the 1800s 3 Credits
Course Tags: Asian Studies Elective, History Before 1750, International Studies Elective, Non-Western History
Prerequisite(s): One 1000-level history course.
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.

HIST 2280 The West and the Middle East 3 Credits
Course Tags: History After 1750, International Studies Elective, Islamic World Studies: Humanities, Non-Western History
Prerequisite(s): One 1000-level history course.
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.

HIST 2281 Portrait of the Arabs 3 Credits
Course Tags: History Before 1750, International Studies Elective, Islamic World Studies: Humanities, Non-Western History
Prerequisite(s): One 1000-level history course.
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.

HIST 2283 Women in the Middle East and Central Asia From Ancient Times to 1600 3 Credits
Course Tags: History Before 1750, Women, Gender, and Sexuality Studies: Gender Focused
This course offers an introduction to women's status and roles in the Middle East and Central Asia from ancient times to 1600. It explores continuity and change in the role and status of women in primary sources including scriptures and historical documents and secondary sources. It examines social changes shaping women's lives within their families and in society and politics. It also examines how women navigated and influenced their societies' structures and norms.

HIST 2284 20th Century Russia 3 Credits
Course Tags: European History, History After 1750, International Studies Elective, Judaic Studies Minor, Russian Studies Minor: History
Prerequisite(s): One 1000-level history course.
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.

HIST 2285 Modern China: 1800 to Present 3 Credits
Course Tags: Asian Studies Elective, History After 1750, International Studies Elective, Non-Western History
Prerequisite(s): One 1000-level history course.
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.

HIST 2286 Rise of Modern Japan: 1800 to Present 3 Credits
Course Tags: Asian Studies Elective, History After 1750, International Studies Elective, Non-Western History
Prerequisite(s): One 1000-level history course.
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.

HIST 2288 Colonial Latin America, 1492-1800 3 Credits
Course Tags: Catholic Studies: Non-Religious Studies, History Before 1750, International Studies Elective, Latinx, Latin American and Caribbean Studies Minor Elective, Non-Western History, Peace and Justice Studies
Prerequisite(s): One 1000-level history course.
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.

HIST 2290 The History of the US-Mexico Border 3 Credits
Course Tags: History After 1750, Latinx, Latin American and Caribbean Studies Minor Elective, U.S. History
This course examines the history of the US-Mexico border and the movement of people and goods across it. Beginning in the 1800s, the course proceeds chronologically and thematically through three units that explore: 1) the hardening of the US-Mexico border in the nineteenth century; 2) the age of mass migration and labor in the twentieth century; and 3) the steady militarization of the border up to the present. Through critical reflection and historical investigation, students will gain an understanding of the history of the border and the vital role that it has played in US, Mexican and Central American life.

HIST 2297 Power, Politics, History: U.S.-Latin American Relations from the 1800s to the Present 3 Credits
Course Tags: History After 1750, International Studies Elective, Latinx, Latin American and Caribbean Studies Minor Elective, Non-Western History, Peace and Justice Studies
Prerequisite(s): One 1000-level history course.
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.

HIST 2298 Historical Geography 3 Credits
Course Tags: History After 1750, U.S. History
Prerequisite(s): One 1000-level history course.
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.

HIST 3303 What If? Alternate History and the Historical Imagination 3 Credits
Course Tags: European History, History After 1750, History: Research Paper
Prerequisite(s): One 1000-level history course.
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.

HIST 3304 The Holocaust in History and Memory 3 Credits
Course Tags: European History, German Course Taught in English, German Major or Minor Course, History After 1750, History: Research Paper, Judaic Studies Minor, Peace and Justice Studies
Prerequisite(s): One 1000-level history course.
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.

HIST 3313 Godless: Atheism and Skeptical Thought in the West 3 Credits
Course Tags: European History, History Before 1750, History: Research Paper
Prerequisite(s): One 1000-level history course.
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.

HIST 3315 Ireland Since the Famine 3 Credits
Course Tags: European History, History After 1750, History: Research Paper, Irish Studies Elective
Prerequisite(s): One 1000-level history course.
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.

HIST 3323 England: Reformation to Revolution 3 Credits
Course Tags: European History, History Before 1750, History: Research Paper
Prerequisite(s): One 1000-level history course.
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.

HIST 3325 Athenian Democracy and Empire 3 Credits
Course Tags: European History, History Before 1750
Prerequisite(s): One 1000-level history course.
This history seminar provides an in-depth exploration of classical Athens at the height of its power in the fifth century BCE. 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. Crosslisted with CLST 3325.

HIST 3331 American Revolution and the New Nation 3 Credits
Course Tags: American Studies Upper Level, American Studies: History, History After 1750, History: Research Paper, U.S. History
Prerequisite(s): One 1000-level history course.
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.

HIST 3335 Civil War and Reconstruction 3 Credits
Course Tags: American Studies Upper Level, History After 1750, History: Research Paper, U.S. History
Prerequisite(s): One 1000-level history course.
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.

HIST 3346 Saints, Sinners, and Sisters: Women and Religion in American History 3 Credits
Course Tags: History After 1750, History: Research Paper, U.S. History, Women, Gender, and Sexuality Studies: Gender Focused
Prerequisite(s): One 1000-level history course.
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.

HIST 3349 The 1930s in America 3 Credits
Course Tags: History After 1750, History: Research Paper, Magis Core: Writing in the Discipline, U.S. History
Prerequisite(s): One 1000-level history course.
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.

HIST 3350 Introduction to Public History 3 Credits
Course Tags: History After 1750, U.S. History
Prerequisite(s): One 1000-level history course.
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.

HIST 3356 History of the Cold War 3 Credits
Course Tags: American Studies Upper Level, American Studies: History, European History, History After 1750, History: Research Paper, Russian Studies Minor: History, U.S. History
Prerequisite(s): One 1000-level history course.
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.

HIST 3366 Gender, Culture, and Representation: Women in China and Japan, 1600 to Present 3 Credits
Course Tags: Asian Studies Elective, History After 1750, History: Research Paper, International Studies Elective, Non-Western History, Women, Gender, and Sexuality Studies: Gender Focused
Prerequisite(s): One 1000-level history course.
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.

HIST 3367 East Asia in 20th-Century American Wars 3 Credits
Course Tags: American Studies Upper Level, American Studies: History, Asian Studies Elective, History After 1750, History: Research Paper, Non-Western History
Prerequisite(s): One 1000-level history course.
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.

HIST 3368 Ideas in Action: Decolonization in World History 3 Credits
Course Tags: Asian Studies Elective, Islamic World Studies: Humanities, Non-Western History, Peace and Justice Studies
Prerequisite(s): One 1000-level history course.
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.

HIST 3371 Arab-Israeli Conflict 3 Credits
Course Tags: History After 1750, Islamic World Studies: Humanities, Judaic Studies Minor, Non-Western History
Prerequisite(s): One 1000-level history course.
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.

HIST 3372 Terrorism in History 3 Credits
Course Tags: European History, History After 1750, Non-Western History, Peace and Justice Studies
Prerequisite(s): One 1000-level history course.
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.

HIST 3373 History of North Africa Since 1700 3 Credits
Course Tags: History: Research Paper, International Studies Elective, Islamic World Studies: Humanities, Non-Western History
Prerequisite(s): One 1000-level history course.
The region historically known as the Barbary Coast or North Africa today comprises five states: Mauritania and 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.

HIST 3383 Food, Consumption, and Commodities in Latin America, 1500 to the Present: From Chocolate to Cocaine 3 Credits
Course Tags: International Studies Elective, Latinx, Latin American and Caribbean Studies Minor Elective, Non-Western History
Prerequisite(s): One 1000-level history course.
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.

HIST 3385 Comparative Russian Revolutions 3 Credits
Course Tags: European History, History After 1750, History: Research Paper, Russian Studies Minor: History
Prerequisite(s): One 1000-level history course.
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.

HIST 3391 The Meanings of History 3 Credits
Course Tags: European History, History After 1750, Non-Western History, U.S. History
Prerequisite(s): One 1000-level history course.
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.

HIST 3900 Special Topics (Shell) 3 Credits
Course Tags: Magis Core: Interdisciplinary
Prerequisite(s): One 1000-level history course, junior 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.

HIST 3980 Internship 1-3 Credits
Prerequisite(s): One 1000-level history course, junior 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 permission only.

HIST 3990 Independent Study 1-3 Credits
Course Tags: History: Research Paper
Prerequisite(s): One 1000-level history course, junior standing.
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 (HONR)

HONR 1101 Enduring Questions 3 Credits
Course Tags: Magis Core: Interdisciplinary
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.

HONR 2202 Honors Seminar 3 Credits
Prerequisite(s): HONR 1101.
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 nine credits in HONR 2202 by completing three seminars throughout their studies.

HONR 2202R Honors Seminar: Religious Studies 3 Credits

HONR 2202S Honors Seminar: Social and Behavioral Sciences 3 Credits

HONR 4990 Special Topics Honors 1-3 Credits
Prerequisite(s): HONR 2202.
This course offers an in-depth investigation of a significant topic or question. The professor(s) teaching the course choose(s) the topic.

HONR 4998 Student-Led Capstone Mini Seminar 1 Credit
A self-selected group of (at least) 5 students (and no more than 10 students) would design (in conjunction with one or two faculty mentor(s) that the students themselves would recruit) a seminar that meets 5 times during the semester (single instructor or team-taught; 1 credit).

HONR 4999 Faculty-Led Capstone Mini-Seminar 1 Credit
A seminar of no more than 10 students that meets 5 times during the semester (single instructor or team-taught, 1 credit).

Humanitarian Action (HUAC)

HUAC 3980 Humanitarian Action Internship 3 Credits
Course Tags: 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.

HUAC 4999 Humanitarian Action Seminar 3 Credits
Prerequisite(s): AETH 2272 or HIST 2270 or POLI 2472; completion of three Humanitarian Action electives; junior or senior standing.
This seminar is a culminating experience that helps students to integrate their learning across courses they have taken in the Humanitarian Action minor and to explore its relationship to their other fields of study and career objectives. Throughout the course, students will develop skills and explore ethical commitments to humanitarian work through experiential learning, readings, and critical reflection, helping them to synthesize the humanitarian knowledge and experiences they have accumulated in their undergraduate careers. Seminar sessions include guest lectures by program faculty, experts from local, national or international organizations, and Fairfield alums in the humanitarian action field to facilitate mentorship for career development.

Humanities (HUMN)

HUMN 1201 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. Crosslisted with CPSC 1201.

HUMN 3210 Digital Publishing in the Humanities 3 Credits
Course Tags: Editing and Publishing Minor Elective, Magis Core: Interdisciplinary, Magis Core: Writing in the Discipline
Students work as editors and peer reviewers for Apollon, a digital journal publishing double-blind, peer-reviewed undergraduate humanities research. In addition to learning about research in the humanities by evaluating submitted essays, students acquire multiple applied skills. They write and post calls for papers; manage submissions; compose rejection, acceptance, and resubmission letters; compose reader's reports; maintain professional correspondence with contributors; market and publicize the journal; and edit accepted submissions. Students learn to use Google analytics; curate existing digital content, including podcast and video; evaluate digital humanities submissions; develop an ebook for each issue; create content and maintain an archival system. Enrollment by permission only.

HUMN 4301 Humanities Institute Seminar 3 Credits
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.

Integrated Business and Engineering (IBEP)

IBEP 2980 Integrated Business & Engineering Internship 1 Credit
Prerequisite(s): Sophomore standing.
Students gain practical experience in integrated business and engineering. Students must be matriculated in the Dolan School of Business and have a GPA of 2.5 or higher. Enrollment by permission only.

IBEP 3980 Internship 3 Credits
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 be matriculated in the Dolan School of Business and have a GPA of at least 2.50. Enrollment by permission only.

Interior Design (IDSN)

IDSN 5405 Drawing and Presentation 3 Credits
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.

IDSN 5407 Color Design 3 Credits
Prerequisite(s): IDSN 5405.
Students develop proficiency in discerning basic color differences and visualizing color application. Students learn color mixing and identification, color scheme planning, pattern and scale.

IDSN 5409 Basic Computer-Aided Design (CAD) 3 Credits
Prerequisite(s): IDSN 5410.
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 should note that this course will be taught using Microsoft Windows. Students should bring their own laptop with AutoCAD LT software installed to each class.

IDSN 5410 Interior Design I 3 Credits
Prerequisite(s): IDSN 5405.
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.

IDSN 5411 Textiles for Interiors 3 Credits
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 processed with discussion of various applications.

IDSN 5413 History of Furniture I 3 Credits
This course examines the major styles of furniture from Egyptian through the Renaissance and Baroque (15th-17th centuries) to the Rococo and Neoclassic 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.

IDSN 5414 History of Furniture II 3 Credits
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 United States and in Europe. Emphasis is placed on learning the characteristics of each period as well as a discussion of the materials culture of the time.

IDSN 5417 History of Architecture and Interior Design 3 Credits
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 Modern.

IDSN 5421 Sustainable Design 2 Credits
This course aims to simplify 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.

IDSN 5422 Rendering 3 Credits
Prerequisite(s): IDSN 5405.
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.

IDSN 6509 3-D Architectural Computer-Aided Design (CAD) 3 Credits
Prerequisite(s): IDSN 5409.
Continuing with skills learned in Basic CAD, this course is an introduction to the application of 3-D Computer Aided Design concepts, methods, and skills used specifically in interior design projects. Autodesk REVIT software applications will be used to produce fully rendered 3-D architectural computer aided designs for portfolio.

IDSN 6511 Interior Design II 3 Credits
Prerequisite(s): IDSN 5410.
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.

IDSN 6512 Interior Design III 3 Credits
Prerequisite(s): IDSN 6511.
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.

IDSN 6513 Interior Design IV 3 Credits
Prerequisite(s): IDSN 6512.
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.

IDSN 6514 Commercial Design 3 Credits
Prerequisite(s): IDSN 6513.
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.

IDSN 6515 Lighting for Interiors 3 Credits
Prerequisite(s): IDSN 5405.
An introduction to various types of lighting equipment and their characteristics. Students learn how to accurately interpret professional lighting catalogs, to calculate appropriate light levels, and to apply this knowledge to a professional lighting plan.

IDSN 6516 Kitchen and Bath Design 3 Credits
Prerequisite(s): IDSN 5405.
This specialty course addresses the specific principals of kitchen and bath design with emphasis on function, style, and 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 course will expose students to the knowledge and professionalism required to be a successful kitchen and bath designer.

IDSN 6518 Interior Design V 3 Credits
Prerequisite(s): IDSN 6513.
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.

IDSN 6519 Interior Design VI 3 Credits
Prerequisite(s): IDSN 6518.
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.

IDSN 6520 Perspective Techniques 3 Credits
Prerequisite(s): IDSN 5405.
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.

IDSN 6521 Business of Interior Design 1 Credit
This course consists of a series of six sessions, each conducted by a different practicing interior designer. The guest instructors will share their experiences in developing a business and dealing with the many practical issues related to the interior design profession.

IDSN 6900 Special Topics (Shell) 3 Credits

IDSN 6999 Capstone and Studio 3 Credits
Prerequisite(s): IDSN 6514, IDSN 6519.
With guidance from a faculty instructor, students undertake a major research project focused on well-established or newly-emerging interior design concepts. Following thesis methodology, students research and then write a defense of their position to lay the foundation for an extensive, more complex commercial, institutional, or residential space. All phases of a professional project are explored: research, programming, analysis of existing conditions, design criteria, concept development, detailed schematic presentation drawings, models, materials, and selected details. The course culminates in a formal presentation and critique by a jury of professionals.

International Studies (INTL)

INTL 1050 People, Places, and Global Issues 3 Credits
Course Tags: Business Elective, Diversity, Equality, and Inclusion Minor Elective, Magis Core: Interdisciplinary, Peace and Justice Studies
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. Previously INST 1050.

INTL 1051 Introduction to International Relations 3 Credits
Course Tags: Humanitarian Action Minor Context Course, Peace and Justice Studies, 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. Crosslisted with POLI 1104 only for double major in Politics and International Studies and International Business. Previously INST 1051.

INTL 1052 Culture and the Political Economy 3 Credits
Course Tags: Magis Core: Writing Across Curriculum
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. Crosslisted with ANTH 2010. Previously INST 1052.

INTL 1053 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. Previously INST 1053.

INTL 2101 Introduction to International Business 3 Credits
The main goal of this course is to introduce students to the core concepts, topics, and issues facing businesses operating in the global market today. Students will learn about the changing business environment, international institutions, issues related to international trade and trade agreements, international financial system and exchange rates, global production and supply chain management and global marketing. Through the study of these topics in international business, students will learn about how the global economy functions and the challenges and opportunities multinational corporations face in working with international organizations, local governments, businesses and consumers, and global competitors. Previously INST 2101

INTL 2150 International Operations of Non-Profits 3 Credits
Course Tags: Business Elective, Humanitarian Action Minor Skills/Method Course
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. Previously INST 2150.

INTL 2154 Contemporary Issues Affecting the Global Business Environment 3 Credits
Course Tags: International Studies Elective
Prerequisite(s): ECON 1011, ECON 1012; or INTL 1053.
The focus of this course is to introduce students to contemporary issues in international business and to understand the impact of real-world events on the global business environment. With in-depth case study analysis and country-specific investment research, students learn about the evolving global business environment, the unique challenges and opportunities businesses face of operating in emerging versus advanced economies, and connections between multinational corporations, governments, and international organizations that can facilitate or hinder cross-border activities. Crosslisted with ECON 2154. Previously INBU 1054.

INTL 2201 Global Engagement 3 Credits
Course Tags: Humanitarian Action Minor Skills/Method Course, International Studies Elective, Magis Core: Interdisciplinary, Peace and Justice Studies
The course explores the interdisciplinary fields that comprise humanitarian response and international development. Students will map social identities, examine asset-based frameworks and theories which underpin the emergence of international organizations in the 20th century.

INTL 2471 United Nations Security Council Crisis Simulation 3 Credits
Course Tags: Humanitarian Action Minor Context Course
This course provides students a hands-on learning experience 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 geopolitical regions of the world. A key goal of the course is to bring to light whether and how power disparities in the structure of the Council limit the effective representation of many countries and global South as a whole and the stakes in reform of the Security Council. Crosslisted with POLI 2471. Previously INST 2471.

INTL 2481 International Human Rights 3 Credits
Course Tags: Humanitarian Action Minor Context Course, International Studies Elective, Peace and Justice Studies, Politics Major: International Relations
This course explores human rights, actors, and advocacy in a global context. It covers the origin and development of international human rights, the need to apply and enforce legal obligations and establish accountability for human rights violators, and procedures used by the international community to contest human rights violations. In this context, students learn about the progress as well as gaps and erosions of human rights on a range of issues, such as women's rights, disability rights, or protection of human rights defenders in higher education. Students apply these understandings to strategic thinking and advocacy on human rights cases. Cross-listed with POLI 2481. Previously INST 2481.

INTL 2980 International Business Internship 1 Credit
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 be matriculated in the Dolan School of Business and have a GPA of 2.50 or higher. Enrollment by permission only.

INTL 3980 Internship 0-3 Credits
Course Tags: International Studies Elective
Prerequisite(s): Junior 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. Previously INST 3980.

INTL 3990 Independent Study 1-3 Credits
Course Tags: International Studies Elective
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. Previously INST 3990.

INTL 4303 Gender, War, and Peace 3 Credits
Course Tags: Politics Major: International Relations, 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. Crosslisted with POLI 4303. Previously INST 4303.

INTL 4999 Senior Capstone Seminar 3 Credits
Course Tags: Magis Core: Writing in the Discipline
Prerequisite(s): INTL 1050, INTL 1051, INTL 1052, INTL 1053 or ECON 1011 and ECON 1012 .
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. Previously INST 4999.

INTL 6000 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. Previously INBU 6000.

Irish Studies (IRST)

IRST 1111 Introduction to the Irish Language I 3 Credits
Course Tags: Irish Studies Elective
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. This course does not count for core credit in Modern and Classical Languages.

IRST 1112 Introduction to the Irish Language II 3 Credits
Course Tags: Irish Studies Elective
Prerequisite(s): IRST 1111.
This course, a continuation of IRST 1111, 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 (ITLN)

ITLN 1110 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.

ITLN 1111 Elementary Italian II 3 Credits
Prerequisite(s): ITLN 1110.
This course, a continuation of ITLN 1110, 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.

ITLN 2210 Intermediate Italian I 3 Credits
Course Tags: Magis Core: Writing Across Curriculum
Prerequisite(s): ITLN 1111.
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.

ITLN 2211 Intermediate Italian II 3 Credits
Course Tags: Magis Core: Writing Across Curriculum
Prerequisite(s): ITLN 2210.
This course, a continuation of ITLN 2210, 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.

ITLN 2262 Rome in the Cultural Imagination 3 Credits
Course Tags: American Studies: Language, Italian Course Taught in English, Italian Studies: Elective, Italian Studies: Italy-Focused, Magis Core Exploration: Literature
A center of artistic, cultural, religious, and political power, Rome has captivated the imagination of artists, politicians, and thinkers over its long history. Paradoxically, it is both a destination for religious pilgrimage as well as a center of licentiousness. This course, which considers Rome as both a city and an idea, follows the city's long trajectory through magnificence and decay to focus in a particular way on the impressions of 19th- and 20th- century American travelers, many of whom were artists, writers, and filmmakers. This course is conducted in English.

ITLN 2271 Italian Cinema 3 Credits
Course Tags: Italian Course Taught in English, Italian Studies: Elective, Italian Studies: Italy-Focused, Magis Core Exploration: VPA
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 1980s and 1990s. Students analyze the works of Rossellini, De Sica, Fellini, Visconti, Germi, Antonioni, Wertmüller, Leone, Pasolini, Moretti, Benigni, and others. Crosslisted with FTMA 2271.

ITLN 2289 Dante 3 Credits
Course Tags: Catholic Studies: Non-Religious Studies, English Literature Before 1800, Italian Course Taught in English, Italian Studies: Elective, Italian Studies: Italy-Focused, Magis Core Exploration: Literature, Magis Core: Writing Across Curriculum
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. Crosslisted with ENGL 1150. Previously ITLN 3289.

ITLN 2290 Italian American Cinema 3 Credits
Course Tags: American Studies: Gateway, Italian Course Taught in English, Italian Studies: Elective, Italian Studies: Italy-Focused, Magis Core Exploration: VPA, Magis Core: Writing Across Curriculum
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 film-making of Italian American screenwriters and directors. This class is taught in English. Crosslisted with FTMA 2290. Previously ITLN 3290.

ITLN 2291 Boccaccio's Decameron in Translation 3 Credits
Course Tags: Italian Course Taught in English, Italian Studies: Elective, Italian Studies: Italy-Focused, Magis Core Exploration: Literature, Women, Gender, and Sexuality Studies: Gender Focused
Written just a few years after the Black Death swept through Florence in 1348, Giovanni Boccaccio's Decameron offers poignant testimony to the resilience of the human spirit in the wake of immeasurable loss. In this class we will follow Boccaccio's troupe of 10 young men and women as they fill their days singing, dancing, playing games, and telling tales. We will analyze Boccaccio's stories in terms of gender, class, and authorship, and see if his crafty wives and hypocritical clerics still have the power to shock and delight their modern readers.

ITLN 3219 Italian for Professional Applications 3 Credits
Course Tags: Italian Studies: Elective, Italian Studies: Italy-Focused
Prerequisite(s): ITLN 2211.
This is a language course designed to give students who have completed Intermediate Italian the grammatical, lexical, and cultural literacy to engage in professional transactions in Italian. Students will gain a cross-cultural understanding of business communication in Italian through the introduction and refinement of pertinent grammar and vocabulary. As a class, we will research notable Italian industries, including fashion, food, and tourism, and analyze their commercial appeal in Italy and abroad. Students will also become familiar with Italy's political, industrial, and financial institutions, while keeping abreast of current events that affect Italian commerce.

ITLN 3220 Topics in Language and Culture 3 Credits
Course Tags: Italian Studies: Elective, Italian Studies: Italy-Focused
Prerequisite(s): ITLN 2211.
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.

ITLN 3222 Made in Italy 3 Credits
Course Tags: Italian Studies: Elective, Italian Studies: Italy-Focused
Prerequisite(s): ITLN 2211.
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.

ITLN 3233 Creative Writing in Italian 3 Credits
Course Tags: Italian Studies: Elective, Italian Studies: Italy-Focused
Prerequisite(s): ITLN 2211.
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.

ITLN 3240 Language of Food in Italian Culture 3 Credits
Course Tags: Italian Studies: Elective, Italian Studies: Italy-Focused
Prerequisite(s): ITLN 2211.
"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.

ITLN 3253 Contemporary Italian Culture 3 Credits
Course Tags: Italian Studies: Elective, Italian Studies: Italy-Focused
Prerequisite(s): ITLN 2211.
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.

ITLN 3255 The Novella 3 Credits
Course Tags: Italian Studies: Elective, Italian Studies: Italy-Focused, Magis Core Exploration: Literature
Prerequisite(s): ITLN 2211.
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.

ITLN 3257 Theatre in Italy: Comedy 3 Credits
Course Tags: Italian Studies: Elective, Italian Studies: Italy-Focused, Magis Core Exploration: Literature, Women, Gender, and Sexuality Studies: Gender Focused
Prerequisite(s): ITLN 2211.
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 and 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.

ITLN 3330 Redefining the Cosmos 3 Credits
Course Tags: Italian Studies: Elective, Italian Studies: Italy-Focused, Magis Core Exploration: Literature
Prerequisite(s): ITLN 2211.
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. Previously ITLN 4330.

ITLN 3980 Internship 3 Credits
Course Tags: Italian Studies: Elective, 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.

ITLN 3990 Independent Study 3 Credits
Course Tags: Italian Studies: Elective, Italian Studies: Italy-Focused
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. Enrollment by permission only.

ITLN 4330 Redefining the Cosmos: Voyages 3 Credits
Course Tags: Italian Studies: Elective, Italian Studies: Italy-Focused, Magis Core Exploration: Literature
Prerequisite(s): ITLN 2211.
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.

ITLN 4999 Capstone Seminar 3 Credits
Prerequisite(s): 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.

Latin (LATN)

LATN 1111 Introductory Latin 4 Credits
This course is a one-semester introduction to the Latin language, the mode of communication that defines the literature and culture of ancient Rome. No previous knowledge of Latin is required. This course will start from the very basics of the Latin language (i.e., parts of speech, inflection, pronunciation) and eventually build towards a strong command of Latin vocabulary, grammar, and syntax. The goal of introductory Latin is to build a solid foundation for reading actual ancient Roman texts. As such, the acquisition of those linguistic skills, elucidated and practiced through classroom instruction and examples in our textbook, will also be reinforced by the reading of select prose and poetry passages in Latin.

LATN 2001 Intermediate Latin 3 Credits
This course builds on the grammatical and syntactic knowledge base built in LATN 1111 or in high school through reading unaltered Latin texts and applying concepts and skills to the actual words of the ancients. Specific language skills that we will develop include recognizing syntactic patterns and larger narrative structures in connected passages of prose or poetry; reading Latin at sight with confidence; reading (and rereading) with increased speed while remaining attentive to very close analysis of assigned passages; and understanding how to use lexica, commentaries, and other scholarly instruments in reading an edition of an ancient text.

Latin American and Caribbean Studies (LCST)

LCST 3301 Justice and the Developing World 3 Credits
Course Tags: Educational Studies Cognate, Humanitarian Action Minor Skills/Method Course, International Studies Elective, Peace and Justice Studies
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.

LCST 3980 Internship 3 Credits
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. Enrollment by permission only.

LCST 3990 Independent Study 1-4 Credits
Prerequisite(s): At least one course in LACS; junior 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. Enrollment by permission only.

Liberal and Professional Studies (LBPS)

LBPS 4999 Senior Project 3-4 Credits
This course, required for all students earning a BA or BS degree in Liberal and Professional 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.

Management (MGMT)

MGMT 2101 Introduction to Management 3 Credits
Prerequisite(s): 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.

MGMT 2980 Internship 1 Credit
Prerequisite(s): Sophomore standing.
Students may take two semesters of internship, approved by the department. Students must be matriculated in the Dolan School of Business and have a GPA of 2.5 or higher. Enrollment by permission only.

MGMT 3235 Managing Human Resources 3 Credits
Prerequisite(s): 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.

MGMT 3240 Leading and Managing People 3 Credits
Course Tags: Public Administration Nonprofit Management
Prerequisite(s): MGMT 2101, 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.

MGMT 3980 Internship 3 Credits
Prerequisite(s): Junior standing.
Students may take two semesters of internship, approved by the department. Students must be matriculated in the Dolan School of Business and have a GPA of 2.5 or higher. Enrollment by permission only.

MGMT 4300 Business Strategies in the Global Environment 3 Credits
Course Tags: International Studies Elective
Prerequisite(s): Senior standing.
This capstone course, required for senior level students in the Dolan 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. Open to matriculated business majors only.

MGMT 4320 Diversity in the Workplace 3 Credits
Prerequisite(s): 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.

MGMT 4330 Career Planning 3 Credits
Prerequisite(s): MGMT 3235 or MGMT 3240; 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.

MGMT 4333 Advanced Topics in Human Resource Management 3 Credits
Course Tags: Management: HR Elective
Prerequisite(s): Junior standing.
This course provides a deep dive into several key HR areas important for those entering this field: Equal Employment Opportunity legislation/regulation, Strategic Staffing (strategies, recruiting and selection practices), HR Analytics, and Performance Appraisal approaches and trends. The course will also cover a few critical entry-level competencies needed for the HR professional, as well as review how HR models, roles, and functions operate in various types of organizations. We will seek to cover career paths and roles within various companies, from small start-ups to global Fortune 100 firms. Course outcomes should help students in determining specific interest in certain HR paths, gaining skills in this course to help differentiate themselves in competing for jobs in the marketplace.

MGMT 4334 Talent Acquisition 3 Credits
Course Tags: Management: HR Elective
This course explores Talent Acquisition (TA) strategies and methods, equipping students with the knowledge to understand how to source, recruit, assess, select, and onboard both internal and external talent, which best align with organizational goals and drive competitive advantage. In today's evolving talent landscape, the ability to attract and retain high-performing candidates is crucial for sustaining business success. Emphasizing strategic staffing models and competency frameworks, this course guides students through the entire TA lifecycle —from talent identification and assessment to onboarding and development. Students will also examine how technology, data analytics, and Artificial Intelligence have reshaped recruitment and evaluation practices.

MGMT 4335 Entrepreneurship: Ideation and Validation 3 Credits
Course Tags: Management: Entrepreneurship Elective
Prerequisite(s): MGMT 2101; Junior standing.
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.

MGMT 4336 Social Entrepreneurship 3 Credits
Course Tags: Management: Entrepreneurship Elective, Public Administration Nonprofit Management
Prerequisite(s): Junior standing.
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.

MGMT 4337 Entrepreneurship: Product Development and Commercialization 3 Credits
Course Tags: Management: Entrepreneurship Elective
Prerequisite(s): MGMT 2101; 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.

MGMT 4338 Managing a Family Business 3 Credits
Course Tags: Management: Entrepreneurship Elective
Prerequisite(s): Junior standing.
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.

MGMT 4339 Family Business in Italy 3 Credits
Prerequisite(s): Junior standing.
The provinces of Italy offer a fascinating setting for the study of the family business model that forms the heart of large and small-scale businesses in Europe. This course will present an understanding of family businesses through the lens of large- and small-scale family-owned Italian businesses. Students will study generational issues in the family-driven wine-making regions of Tuscany, explore the fashion district of Milan, examine the small-scale family-run craft businesses in Florence, and contemplate the global challenges associated with this business model. The course will offer a rare opportunity to observe the nexus between entrepreneurship, family, and business, and will provide lessons in the notion of "tempo giusto." This faculty-led study abroad elective will begin online at Fairfield University and then move to Florence, Italy, for seven days during Spring Break. Over the course of six weeks, students will read material and take an exam on family business concepts online prior to venturing abroad, where they will examine firsthand the nature of Italian family businesses. The course will conclude with a group project paper upon our return that highlights a family business case in a particular industry.

MGMT 4340 Strategy and Innovation for Sustainability 3 Credits
This course provides an overview of topics related to environmental and social sustainability with a focus on how strategy and innovation at the business level help to create sustainable societies and infrastructures. This course has three major objectives: to increase students' knowledge of key global sustainability related trends; to teach students to think strategically on environmental and social challenges; to help students understand the promises and limits of modern business approaches to sustainability.

MGMT 4341 Technology Ventures 3 Credits
This course examines the fundamentals of technology entrepreneurship, a global phenomenon that has driven vital changes in society by empowering individuals to seek opportunity in technological and business solutions when presented with what others see as insurmountable problems. Technology entrepreneurship, whether in a startup or established company, is a spirited approach to business leadership that involves identifying high-potential, technology-intensive commercial opportunities, gathering resources such as talent and capital, and managing rapid growth and significant risks using principled decision-making skills. This course is designed to be approachable for students from all majors who seek to understand the entrepreneurial process. Topics introduced in this course are not only relevant to future managers, marketers, and investors, but to the future engineer and scientist.

MGMT 4350 International Law 3 Credits
Course Tags: Humanitarian Action Minor Skills/Method Course, International Studies Elective
Prerequisite(s): Junior standing.
This course is a study of international laws, legal institutions, and the societal and cultural institutions that impact and regulate business activity throughout the world. The student is introduced to the risks of international business and how those risks differ from doing business domestically; the function and importance of public international law; the international commercial transaction and its potential problems; and the basic structure and principles of international trade law and negotiations for trade. Also discussed are the legal and ethical problems facing multinationals operating in a number of countries, including licensing and protection of international property rights, and a comparative analysis of host country employment laws. Special emphasis is placed on the developing countries and emerging markets, such as China, Russia, India, Africa, Latin America, the Middle East, and the Caribbean, with a comparative legal and cross-cultural perspective.

MGMT 4360 Negotiations and Dispute Resolution 3 Credits
Course Tags: Environmental Studies: Applied Professional Skills, International Studies Elective
Prerequisite(s): 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.

MGMT 4361 Cross-Cultural Negotiation and Conflict Management 3 Credits
Negotiation is both an art and a science—a dynamic process of securing agreements between two or more interdependent parties who are seeking to maximize their outcomes. While negotiation can be challenging in any context, cross-cultural negotiation adds a distinctive layer of complexity. Cultural differences shape not only the strategic approaches parties bring to the table but also the underlying assumptions, communication styles, and expectations about what constitutes fairness, trust, and success. A negotiator who fails to account for these cultural dimensions risks misunderstanding or suboptimal agreements. Conversely, a culturally sensitive negotiator can leverage these differences to create innovative and mutually beneficial outcomes. This course immerses students in the practice of negotiation through weekly simulations, role-plays, and case discussions. Students will learn by doing—testing strategies in live exercises, experimenting with different approaches, and reflecting on outcomes in structured debriefs.

MGMT 4370 Managing Non-Profit Organizations 3 Credits
Course Tags: Humanitarian Action Minor Skills/Method Course, International Studies Elective, Management: HR Elective, Public Administration Nonprofit Management
Prerequisite(s): 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.

MGMT 4375 Sports Management 3 Credits
Prerequisite(s): MGMT 2101; 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. Open to sports leadership and management minors only.

MGMT 4380 Performance, Compensation, and Reward 3 Credits
Course Tags: Management: General Elective
Prerequisite(s): 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.

MGMT 4385 Managing People for Global Business 3 Credits
Course Tags: International Studies Elective
Prerequisite(s): Senior standing.
This course explores the complexities of managing people in the global business arena. Globalization, through international alliances, mergers, joint ventures, and offshoring, is part of strategic management of the firm. A major challenge posed by global business is the need to respond to cultural and historical institutions and social justice issues in human resource management across countries. A broader and deeper understanding is called for in order to manage people in this globalized world. Strategic international human resource management (SIHRM) entails recruiting the best, motivating them to perform their best, and providing them with a rewarding and fulfilling career globally across countries. The HRM activities take on new meaning when applied in the global business arena where people from different social and historical institutional setup work. As the firm operates in global markets, hires foreign employees, or outsource work to foreign countries, SIHRM practices like global recruitment, training, compensation and benefits, performance management, and employee relations become more complex. In this course, students will analyze these complexities from the cultural, social, and organizational justice perspective and discuss SIHRM issues for global companies. Open to management majors only.

MGMT 4390 Cross-Cultural Management 3 Credits
Course Tags: International Studies Elective
Prerequisite(s): Senior standing.
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. Open to management majors only.

MGMT 4900 Special Topics (Shell) 3 Credits
Course Tags: Management: General Elective
Prerequisite(s): Junior standing.
This course gives students an in-depth understanding of current issues and topics in management. The focus is on the application and analysis of managerial principles in contemporary problem solving. The faculty member teaching this course constructs course content around current developments in their research area. Topics may include decision-making in a chaotic environment, change management, organizational structure and design, health care, social justice, the political and social context of organizations, the consequences of the free market logic, leadership, the environment, diversity and gender, e-business, and managing virtual teams and organizations.

MGMT 4990 Independent Study 3-6 Credits
Course Tags: 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.

MGMT 5400 Organizational Behavior 3 Credits
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.

MGMT 5410 Understanding Organizations 1.5 Credits
This course examines micro level organizational behavior theories as applied to organizational settings. Topics will include motivation, leadership, interpersonal relations, group dynamics, and strategies for organizational culture and change.

MGMT 6500 Leadership 3 Credits
Prerequisite(s): MGMT 5400.
Effective leadership provides a competitive advantage for an organization in the marketplace. The goal of this course is to enhance students' ability to successfully lead in an innovative, dynamic, global environment, building their confidence level to successfully lead in the 21st century. Building from a best practice "real-world" approach students will be given the opportunity to increase their knowledge and skill level through self-assessments, case studies, assignments, and experiential learning. An impactful set of strategies and techniques will be presented, covering situational leadership theories and practices, leading in multiple geographies and cultures, navigating team/organizational dynamics, influencing and motivating meaningful change, shaping culture, and creating vision and strategic direction.

MGMT 6502 Law and Ethics for Critical Reasoning in Business 1.5 Credits
This course is designed to provide a solid basis in legal and ethical reasoning that can support effective decision-making about a wide range of complex business issues. Employing active learning methods, it efficiently provides students with the capacity to think independently in an informed, carefully reasoned way. Course content includes select legal topics, rules and concepts, models of legal reasoning and ethical analysis, and the relationship between the two.

MGMT 6503 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.

MGMT 6504 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.

MGMT 6505 Human Resource Strategy - An Artificial Intelligence & Human Intelligence Approach 3 Credits
Human Resource (HR) Strategy serves as the critical link between human resource management (HRM) and organizational success. Human capital, which is knowledge, skills and abilities (KSA) of people, is the strategic asset of the firm that acts on all other assets to make them productive. In today's fast-evolving business landscape, leveraging both Artificial Intelligence (AI) and Human Intelligence (HI) is essential for creating dynamic, HR strategies that enhance a firm's competitive advantage. This course explores how HRM functions—including talent acquisition, training and development, performance management, compensation strategies, and employee relations—can be optimized using AI while maintaining the essential human judgment and ethical considerations necessary for effective people management.

MGMT 6506 Navigating Law, Ethics, and Investment in the Green Economy 3 Credits
This course examines the intersection of sustainability, law, and finance to explore how policy, regulation, and private capital interact to shape the clean energy economy. With a focus on both U.S. and global frameworks, students will analyze the role of environmental law, administrative enforcement, and government incentives in supporting innovation and shaping market behavior. Students will explore how legal risk, ESG mandates, and regulatory complexity impact business strategy and investment decisions. Through readings, simulations, and real-world case studies - including venture financing of clean tech firms and ethical dilemmas in global supply chains - students will build practical fluency in how sustainability issues influence corporate governance, entrepreneurial ventures, and international dealmaking. Topics include environmental and administrative law, the Inflation Reduction Act, public-private partnerships, venture capital, ESG and CSR distinctions, international clean energy negotiations, and state-level green investment policies. Weekly instruction will incorporate current events and culminate in group-based legal and investment simulations.

MGMT 6507 Negotiations and Dispute Resolution 3 Credits
Prerequisite(s): MGMT 6500.
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.

MGMT 6508 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.

MGMT 6515 Professional Development 0 Credits
The purpose of this course is to aid the process of professional career development at the graduate level. Students will develop professional resumes, practice interviewing skills, and develop a robust LinkedIn social media presence for networking in the job market.

MGMT 6525 Employee Performance Management and Rewards for Competitive Advantage 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.

MGMT 6530 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.

MGMT 6531 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.

MGMT 6532 Strategies for Environmental and Social Sustainability 3 Credits
This graduate level course provides an overview of topics related to environmental and social sustainability with a focus on how strategy and innovation at the business level help to create sustainable societies and infrastructures. This course has three major objectives: to increase students' knowledge of key global sustainability related trends; to teach students to think strategically on environmental and social challenges; to help students understand the promises and limits of modern business approaches to sustainability. The course combines talks, case studies, and class discussions on management theory, tools, and frameworks shaping the business-environment interface, and evolving requirements for business success. Several guest lecturers will discuss how they have addressed sustainability within their company.

MGMT 6540 Cross Cultural Management and Sustainable Leadership 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.

MGMT 6545 Law and Human Resources Management 3 Credits
Prerequisite(s): MGMT 6503.
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.

MGMT 6555 Labor Relations 3 Credits
Prerequisite(s): MGMT 6505.
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.

MGMT 6560 Career Planning and Development 3 Credits
Prerequisite(s): MGMT 6500.
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.

MGMT 6584 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.

MGMT 6900 Contemporary Topics 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.

Management of Technology (MGTN)

MGTN 5405 Supply Chain Design 3 Credits
This course is designed to equip and prepare the student with the understanding, management tools, and strategies for supply chain design and management in a global supplier environment. Using analytical techniques, modeling, and industrial scenarios, this course looks in depth at development and manufacturing processes, quality management infrastructure logistics strategies, and culture necessary in evaluating and selecting suppliers for various degrees of added value. 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.

MGTN 5407 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.

MGTN 5415 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.

MGTN 5420 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.

MGTN 5450 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.

MGTN 5460 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.

MGTN 5465 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.

MGTN 5470 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.

MGTN 5485 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.

MGTN 6505 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.

MGTN 6510 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 life cycle.

MGTN 6525 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.

MGTN 6961 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.

MGTN 6962 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.

MGTN 6990 Independent Study 1-3 Credits
This course is intended to broaden the graduate student's knowledge in a specific area of interest. Students may pursue topics or projects under the supervision of a faculty member. Enrollment by departmental approval only.

Marketing (MKTG)

MKTG 1101 Principles of Marketing 3 Credits
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.

MKTG 2212 Consumer Behavior 3 Credits
Prerequisite(s): MKTG 1101, sophomore 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.

MKTG 2221 Sales and Sales Management 3 Credits
Prerequisite(s): MKTG 1101, sophomore 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.

MKTG 2231 Advertising 3 Credits
Prerequisite(s): MKTG 1101, sophomore standing.
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.

MKTG 2241 Digital Marketing 3 Credits
Prerequisite(s): MKTG 1101, sophomore standing.
In this course, students will undertake an applied perspective towards marketing on current digital platforms (company's website, social media platforms, etc) and will learn how to adapt the traditional marketing strategies onto the digital space. Topics to be covered include website design, Search Engine Optimization (SEO), online advertising, social media marketing, email marketing, mobile marketing, and web analytics. The course is designed to get students to think like a digital marketing professional, and to give them experience with industry-relevant hands-on assignments and exercises.

MKTG 2251 Social Media Marketing 3 Credits
Prerequisite(s): MKTG 1101, sophomore 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.

MKTG 2261 Sports Marketing 3 Credits
Prerequisite(s): MKTG 1101, sophomore 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.

MKTG 2271 Fashion Marketing 3 Credits
Prerequisite(s): MKTG 1101 and sophomore standing.
This course is designed to equip students with the essential skills and knowledge needed to navigate US-based fashion brands, with a special focus on the unique role of New York City as a global fashion capital. Students will gain insight into the trends, challenges, and opportunities that shape American fashion. They will learn to analyze and engage diverse domestic and international customer audiences, understand how fashion brands build customer loyalty and drive sales both locally and globally. The course will look at strategies for branding, storytelling, and maintaining a distinctive brand identity in a highly competitive international market. Additionally, students will explore expansion into new markets, how brands align marketing practices with ethical and sustainable values, and create impactful campaigns that reflect the innovation and cultural diversity of the fashion landscape, providing students with a focused, practical and inspiring foundation for a fashion career.

MKTG 2311 Marketing Research 3 Credits
Prerequisite(s): MKTG 1101; ECON 0278 or MATH 1017 or MATH 2217 or PSYC 2810 or SOCI 3610; sophomore standing.
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.

MKTG 2980 Internship 1 Credit
Prerequisite(s): Sophomore standing.
Students may take two semesters of internship, approved by the department. Students must be matriculated in the Dolan School of Business and have a GPA of 2.5 or higher. Enrollment by permission only.

MKTG 3321 Marketing Channels 3 Credits
Prerequisite(s): MKTG 1101, junior standing.
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.

MKTG 3322 Business-to-Business Marketing 3 Credits
Prerequisite(s): MKTG 1101, junior standing.
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.

MKTG 3331 Media Strategy 3 Credits
Prerequisite(s): MKTG 1101, junior standing.
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.

MKTG 3332 Public Relations Strategy 3 Credits
Prerequisite(s): MKTG 1101, junior standing.
This course looks at the primary functions of the public relations profession in managing and building an organization's reputation. Key areas of study include understanding stakeholder expectations, exploring a variety of communication messages and publicity tactics that inform and engage audiences, leveraging mass market communications channels and understanding the measures of public perception. The course presents public relations as a central part of a communication strategy that impacts the success of the organization.

MKTG 3341 Brand Management 3 Credits
Prerequisite(s): MKTG 1101, junior standing.
This course examines the brand as a strategic system of meaning that integrates visual identity, values, personality, and positioning to create distinctive and compelling offerings for consumers. The course explores how organizations build, measure, and sustain brand equity over time; manage brand and product portfolios; and foster strong consumer relationships and loyalty. The course also addresses global branding and ethical considerations, with an emphasis on strategic planning, implementation, and applied analysis through cases and team projects.

MKTG 3342 Contemporary Issues in Marketing 3 Credits
Prerequisite(s): MKTG 1101; junior standing.
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.

MKTG 3345 Introduction to Marketing Analytics 3 Credits
Prerequisite(s): Junior standing, MKTG 1101.
This course explores the most fundamental pillars of analytics through the lens of modern marketing challenges. Students learn to transform raw data into actionable marketing insights using ethical and responsible data practices using industry-standard techniques and tools. The curriculum covers data management and visualization, and analysis. Through hands-on applications, students develop the analytical skills needed to drive evidence-based marketing decisions and create measurable business value.

MKTG 3980 Internship 3 Credits
Prerequisite(s): Junior standing.
Students may take two semesters of internship, approved by the department. Students must be matriculated in the Dolan School of Business and have a GPA of 2.5 or higher. Enrollment by permission only.

MKTG 4312 Global Marketing Strategy 3 Credits
Course Tags: International Studies Elective
Prerequisite(s): MKTG 1101, senior standing.
This course instills in students an appreciation of the complexities encountered in marketing products and services in global markets. The course discusses differences that exist among consumers in different cultures and also provides students with an understanding of the role of external elements such as economic, political, legal, cultural, geographic, and social environments on the formulation of a firm's marketing strategy in foreign markets. Previously MKTG 3312.

MKTG 4990 Independent Study 3-6 Credits
Prerequisite(s): MKTG 1101, 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.

MKTG 5400 Marketing Management 3 Credits
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.

MKTG 5410 Marketing in the Digital World 1.5 Credits
This course will provide students with the understanding of the role of marketing in the modern corporation. The course integrates the fundamental concepts of marketing with the newest trends in digital and social media marketing. Emphasis will be placed on how firms execute marketing strategy utilizing the latest digital tools. Open to MS Management students only.

MKTG 6500 Customer Value 3 Credits
Prerequisite(s): MKTG 5400.
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.

MKTG 6505A Introductory Storytelling in Marketing 1.5 Credits
Prerequisite(s): MKTG 5400.
Storytelling is an essential part of marketing communication. This course will allow students to understand the power of "the story" in a marketing context in how brands can effectively communicate, persuade, and influence key audiences. Students will learn to leverage brand stories in building long-term relationships with customers. Students will acquire the basics of storytelling drawing from its inter-disciplinary nature including the models and science behind it. They will also learn about the critical elements and techniques used in storytelling. Students will work on in-class assignments using established brands to identify good story ideas along with ways to capture target audiences' attention. They will not only learn to understand and critique brand stories but also be able to craft and execute holistic brand-customer stories through various promotional mix platforms.

MKTG 6505B Advanced Storytelling in Marketing 1.5 Credits
Prerequisite(s): MKTG 6505A.
Storytelling with data is an essential part of marketing communication. This course will allow students to use data for effective brand-customer storytelling within an overarching brand strategy framework. Students will learn to apply the critical elements, techniques, including story angles and hooks in effectively communicating a brand-customer story backed with data. Students will work on an in-class project that entails research design, data collection and analysis to not only create a powerful data-oriented, brand-customer story but also to implement this story on at least one promotional mix platform.

MKTG 6510 Advanced Consumer Behavior for Managers 3 Credits
Prerequisite(s): MKTG 5400.
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.

MKTG 6515 Artificial Intelligence in Marketing 3 Credits
Prerequisite(s): MKTG 5400.
Artificial Intelligence (AI) in Marketing provides a comprehensive overview of the theory and practical application of AI within the field of marketing. This course equips students with theoretical and practical expertise in core AI concepts like machine learning, LLM, NLP, and generative AI, and their direct application across vital marketing functions, including advanced audience targeting, data-driven personalization, modern SEO/AEO/GEO, media buying, content creation, social listening and predictive analytics. The curriculum emphasizes leveraging AI for strategic decision-making while adhering to ethical use and privacy regulations. Students will be prepared to drive socially responsible, strategic decision-making and gain a competitive advantage.

MKTG 6520 Research for Marketing Insights and Decisions 3 Credits
Prerequisite(s): MKTG 5400.
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.

MKTG 6525 Customer Experience 3 Credits
Customer experience (CX) occurs every time a customer interacts with a company via any channel, at any time, for any purpose. Creating word-class, end-to-end customer experiences has become an innovative way to gain sustainable competitive advantage, but it requires a deep understanding of both the customers and how they interact, as well as a commitment to change business processes based on that understanding. In this course, students will learn how to create compelling customer experiences along the whole process of customer touch-points, from prospect to purchase. Topics to be covered include pre-purchase profiling and segmentation of prospects, persona development, experience mapping, and the role of technology platforms and artificial intelligence that drive advanced customer journeys. The class consists of a mix of lectures, case analyses, and a project that includes designing, planning, and executing a complete Customer Experience for a selected brand/organization.

MKTG 6530 Marketing Analytics 3 Credits
Prerequisite(s): MKTG 5400, DATA 5400.
Marketing analytics is the practice of leveraging data to drive marketing decision-making and strategy. This course introduces students to essential analytical techniques used to collect, analyze, visualize, and interpret marketing data including the ethical challenges with AI, machine learning and big data. Through a combination of theoretical concepts, hands-on exercises, and simulations, students will develop skills in data-driven marketing, optimization, and predictive modeling. By the end of the course, students will have gained hands-on experience with marketing data technologies and developed the ability to make data-driven marketing decisions.

MKTG 6535 Strategic Brand Management 3 Credits
Prerequisite(s): MKTG 5400.
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; Module 3: Managing Brand Equity.

MKTG 6540 Advertising Management 3 Credits
Prerequisite(s): MKTG 5400.
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.

MKTG 6550 Advanced Marketing Strategy 3 Credits
The course will focus on the importance of an effective marketing strategy in order for businesses to make key marketing decisions and be successful. In this course, students will learn to strategically analyze and solve marketing problems from a decision maker's perspective. Students will focus on solving four fundamental marketing problems known as the "First Principles of marketing strategy" that firms face when designing and implementing marketing strategies. In order to develop an effective marketing strategy, most critical decisions must address that 1) All customers differ; 2) All customers change; 3) All competitors react and 4) All resources are limited. Application of the principles will cover all elements of the marketing mix including topics such as research and development, demographic targeting and segmentation, pricing, product forecasting, marketing channels, sales force distribution and media allocation.

MKTG 6560 Category Management and Shopper Insights 3 Credits
Fee: $105 Graduate Business Lab
Prerequisite(s): MKTG 5400.
In this course, students will learn how retailers and manufacturers engage in a collaborative process to manage a product category at retail for the purpose of optimizing shopper satisfaction to increase revenues and profits. The course imparts students with hands on training on how to analyze retail POS (Point of Sales) data (syndicated scanner data). An emphasis will be given to data interpretation and implication on strategic and tactical decision making related to product assortment, shelf set, promotion, and pricing decisions for the purpose of generating store traffic, improving shopper loyalty, and ultimately increasing revenues and profitability. Students will learn how to leverage insights through a combination of case studies, workshops and by creating compelling, fact-based presentations.

MKTG 6570 Digital Marketing and Analytics with AI 3 Credits
Prerequisite(s): MKTG 5400.
This course develops a strategic and analytical understanding of digital marketing, artificial intelligence, and data-driven decision making, and their implications for organizations and consumers in a dynamic business environment. Students apply contemporary digital marketing tools and analytics to design, integrate, and evaluate marketing strategies across digital channels, including web, search, social media, email, and mobile platforms. The course emphasizes the responsible integration of artificial intelligence—such as large language models, generative engine optimization (GEO), and agentic AI—into marketing planning, execution, and performance measurement, while addressing ethical, legal, and governance considerations essential to building and managing a sustainable digital marketing ecosystem.

MKTG 6575 Social Media Analytics and Strategy 3 Credits
Prerequisite(s): MKTG 5400 and DATA 5400.
MKTG 6575 focuses on the power of social media analytics and strategy in enabling businesses to make informed, ethically sound decisions. Students will explore key strategies and techniques, including social listening, social CRM, and social network analysis, to create effective campaigns and optimize resource allocation. The course offers hands-on experience with major social media platforms, where students will develop content, design paid campaigns, and analyze performance data, all while addressing legal and ethical considerations in data collection and management. By the end of the course, students will earn industry-recognized certifications and gain proficiency using AI. The course integrates lectures, case studies, interactive discussions, and an experiential learning project, helping students transform data into actionable insights to elevate social media marketing strategies.

MKTG 6580 Advanced Marketing Analytics 3 Credits
Prerequisite(s): MKTG 5400, MKTG 6520.
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.

MKTG 6583 Pricing Strategies and Analytics 3 Credits
Fee: $75 Graduate Business Lab
Pricing is the only element of the marketing mix that generates revenue. The other marketing instruments typically drive cost in the process of creating customer value, which is recaptured through effective pricing. This course establishes a foundation for effective pricing decisions by teaching key economic, analytical, and behavioral concepts associated with costs, customer behavior, and competition; introduces students to advanced pricing techniques that aim to create additional value, including dynamic pricing, segmented pricing, pricing structures, and promotions; and highlights practical applications of these approaches within specific industry contexts. Through a mixture of lectures, case studies, and analytical techniques, the course will prepare students to address strategic and tactical issues related to pricing.

MKTG 6590 Experimental Research 3 Credits
Prerequisite(s): MKTG 5400, MKTG 6520.
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.

MKTG 6900 Contemporary Topics 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.

MKTG 6990 Independent Study 3 Credits

MKTG 6999A Capstone Project: Marketing Analytics and Strategy 3 Credits
Prerequisite(s): Four courses from: MKTG 6510, MKTG 6520, MKTG 6530, MKTG 6550, MKTG 6570, MKTG 6580, MKTG 6583.
In this course, students demonstrate how the knowledge and skills learned in the MS in Marketing Strategy and Analytics program can be applied to business problems. Students will demonstrate this competence by providing socially responsible strategic recommendations to a local organization to solve a business problem in order to gain competitive advantage. Students undertake a major research project as a central activity in this course, drawing on the expertise and research methodologies they have developed in the program.

MKTG ADD Advanced Marketing Strategy 3 Credits

Marriage and Family Therapy (MFTH)

MFTH 5433 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 (COAMFTE). The course addresses the issues of gender role stereotyping and changing sex roles, and integrates professional contributions from the professional literature.

MFTH 5447 Human Development Across the Family Lifecycle 3 Credits
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.

MFTH 5465 Introduction to Substance Abuse and Addictions 3 Credits
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.

MFTH 5470 Queer and Trans Mental Health 3 Credits
This class is designed to expand candidates' multicultural competence when working with sexual and gender minority (SGM) individuals, couples, and families in educational, mental health, and healthcare settings. This course adopts an intersectional, critical, and social justice perspective by interrogating heterosexism, homophobia, transphobia, power, privilege, and oppression. Using the minority stress model, candidates will examine health disparities and critical presenting concerns, such as coming out, depression, suicide, and gender transition. Candidates will engage in critical self-reflection of their own multicultural identities and the influence of these on the therapeutic process or the educational setting.

MFTH 5471 Sexual and Gender Minority Mental Health Treatment 2 Credits
Prerequisite(s): MFTH 5470.
This course is designed to follow MFTH 5470 and expand candidates' multicultural competence when working with sexual and gender minority (SGM) individuals, couples, and families in educational, mental health, and healthcare settings. This course adopts an intersectional, relational, and family life cycle perspective. Topics include barriers to accessing treatment, effective approaches to treatment, and mental health prevention and promotion. Candidates will integrate professional practice standards, research evidence, healing and liberation practices, and critical reflection of their own multicultural identities to articulate an affirmative approach to treating SGM individuals, couples, and families.

MFTH 5480 Transgender and Gender Expansive Affirming Care 1.5 Credits
Prerequisite(s): MFTH 5470.
This course is designed to expand candidates' understanding of transgender and gender expansive youth, adults, and their families in educational, mental health, and healthcare settings. This course adopts an intersectional, relational, and family life cycle perspective. Topics include the unique challenges faced by transgender and gender expansive individuals, couples, and families, gender identity development, and letters of support for medical gender transition. Candidates will integrate professional practice standards, research evidence, and critical reflection of their own social identities to articulate an affirmative approach to treating transgender and gender expansive individuals and their families.

MFTH 5481 Conversations with Queer and Trans Youth 1.5 Credits
Prerequisite(s): MFTH 5470.
This course is designed to expand candidates' understanding of queer and trans youth, their families, and their communities through a critical, intersection, and queer lens. In particular, we will consider the implications for family work with young people whose identities are relationally and discursively constructed and situated. Candidates will focus on cultivating a praxis of self-reflexivity and accountability for power relations. Candidates will integrate queer theory, research evidence, and critical reflection of their own multicultural identities to articulate an affirmative approach to treating sexual minority youth and their families.

MFTH 5525 Divorce, Single Parenting, and Blended Families 3 Credits
This course considers the implications of divorce, single parenting, recoupling, and step-parenting for families experiencing these transitions and for society at large. Specific topics include boundary issues during transition, legal aspects of divorce, custody decisions, school issues for children of divorce, and the complexities of single-parenting and blending families, with an emphasis on recent research regarding divorce and its aftermath.

MFTH 5550 Introduction to Marriage and Family Therapy 3 Credits
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.

MFTH 5598 Tevera Site Placement Process 0 Credits
This zero-credit course is designed for students as a mechanism for payment of MFTH Technology Fee associated with the Tevera site placement platform used for the clinical training process.

MFTH 5999G Queer and Trans Mental Health Capstone 3 Credits
Prerequisite(s): MFTH TBD.
In this course, candidates apply the knowledge and skills gained throughout the certificate program to create and implement a project in their place of employment, other sponsoring organization, or community. The project is developed with a faculty mentor and community partner to directly impact the mental health of SGM individuals, couples, or families. Candidates take this course after completing all other coursework required for the Certificate in Sexual and Gender Minority Mental Health.

MFTH 6425 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.

MFTH 6450 Techniques of Narrative and Solution-Focused Therapy 3 Credits
Prerequisite(s): MFTH 6553.
This course will provide an overview of two postmodern and strengths-based therapeutic theories, concepts and applications. The student will become acquainted with the theories and concepts developed by White, Epston, Anderson, Freedman, Combs, de Shazer, Berg, and others. Attention will be focused on distinguishing between the postmodern approaches in terms of assessment, conceptualization, treatment and theoretical foundations.

MFTH 6552 Intervention in Structural and Strategic Family Therapy 3 Credits
Prerequisite(s): MFTH 5550.
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.

MFTH 6553 Family Therapy Pre-Practicum 3 Credits
Prerequisite(s): MFTH 6555.
Taken 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.

MFTH 6555 Foundations of Marital and Family Therapy 3 Credits
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.

MFTH 6556 Research in Marriage and Family Therapy 3 Credits
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.

MFTH 6561 Advanced Interventions in Family Therapy 3 Credits
Prerequisite(s): MFTH 6555.
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.

MFTH 6565 Ethical, Legal, and Professional Issues in Family Therapy 3 Credits
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, inter-professional cooperation, and mental health care delivery systems.

MFTH 6566 Substance Abuse and the Family 3 Credits
Prerequisite(s): MFTH 5465.
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 inter-generational 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.

MFTH 6567 Couples Therapy 3 Credits
Prerequisite(s): MFTH 6553.
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, child-rearing 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.

MFTH 6569 Assessment Techniques in Marriage and Family Therapy 3 Credits
This advanced family therapy course addresses clinical diagnosis and assessment in the treatment process. Topics include major family therapy assessment methods and instruments, familiarity with the DSM V, pharmacological treatments, and recognition and critical assessment of cultural factors.

MFTH 6570 School-Based Practicum in Marriage and Family Therapy 3 Credits
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.

MFTH 6900 Special Topics (Shell) 1-3 Credits
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.

MFTH 6951 Practicum in Family Therapy I 3 Credits
Prerequisite(s): MFTH 5433, MFTH 6553, MFTH 6565.
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.

MFTH 6952 Practicum in Family Therapy II 3 Credits
Prerequisite(s): MFTH 6951.
This course is a continuation of MFTH 6951.

MFTH 6971 Thesis Prospectus 3 Credits
Prerequisite(s): MFTH 6556.
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.

MFTH 6972 MFT Thesis Research I 3 Credits
Prerequisite(s): MFTH 6971.
This course is the second in a series of three Master Thesis courses in MFT. This course operates as an independent study experience under the supervision of a full-time, core faculty Chairperson and the secondary supervision of two additional full-time faculty Committee Members from Fairfield University. All thesis proposals are submitted for Institutional Review Board (IRB) approval or exemption. The student must independently engage in the continual collection and/or analysis of data. Students are required to remain in close contact with the thesis advisor, particularly around any participant concerns or unforeseen circumstances that occur during data collection. This course is open to students in the marriage and family therapy program.

MFTH 6973 MFT Thesis Research II 3 Credits
Prerequisite(s): MFTH 6971, MFTH 6972.
This course is the third in a series of three Master Thesis courses in MFT. This course operates as an independent study experience under the supervision of a full-time, core faculty Chairperson and the secondary supervision of two additional full-time faculty Committee Members from Fairfield University. All thesis proposals are submitted for Institutional Review Board (IRB) approval or exemption. During this final semester of the MFT thesis project, the student will complete the data analysis process, write chapter 5, the discussion, and complete the final defense. This course is available for MFTH students only.

MFTH 6981 Internship in Family Therapy I 3 Credits
Prerequisite(s): MFTH 6952.
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.

MFTH 6982 Internship in Family Therapy II 3 Credits
Prerequisite(s): MFTH 6981.
This course is a continuation of MFTH 6981. Candidates must complete all clinical and supervisory hours by the close of the grading period to be eligible for graduation.

MFTH 6983 Continuing Internship in Family Therapy 1 Credit
Prerequisite(s): MFTH 6981.
This course is a continuation of MFTH 6981. Candidates must complete all clinical and supervisory hours by the close of the grading period to be eligible for graduation.

MFTH 6990 Independent Study 1-6 Credits
Candidates undertake individual projects in consultation with a faculty member based on proposals submitted one semester in advance of course registration.

MFTH 6999F 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.

MFTH 6999T 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.

Mathematics (MATH)

MATH 1011 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 MATH 1121, MATH 1141, or MATH 1171 for their majors, but who do not have a strong enough mathematics background.

MATH 1015 Mathematics: An Exploration 3 Credits
Course Tags: Educational Studies Cognate
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 their major. Topics will vary, depending upon the instructor, but in general will include topics of both historical and current interest.

MATH 1016 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 MATH 1011 is not an appropriate course to take before taking this course.

MATH 1017 Elementary Probability and Statistics 3 Credits
This introduction to the theory of statistics includes: types of data, descriptive statistics including the mean, median, mode, standard deviation, variance, histograms, box plots, scatterplots, correlation, and least squares lines, basic probability rules, types of distributions, binomial and normal distributions, central limit theorem; and an introduction to one-sample hypothesis testing. This course requires the use of the TI-84 calculator or Excel. Students who have received credit for MATH 2217, 3317 or 3352 may not take this course for credit.

MATH 1121 Applied Calculus I 3 Credits
Prerequisite(s): 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 MATH 1141 or MATH 1171 may not take this course for credit.

MATH 1122 Applied Calculus II 3 Credits
Prerequisite(s): MATH 1121 or MATH 1141 or MATH 1171.
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 MATH 1142 or MATH 1172 may not receive credit for this course.

MATH 1123 Intermediate Calculus 3 Credits
This course is designed for students majoring in Physics, Engineering, Chemistry and Biochemistry and/or Mathematics, who have taken the Applied Calculus sequence (MATH 1121/1122), to prepare them for MATH 2243. This course will revisit the typical calculus 1 and 2 concepts from a more formal point of view and will offer applications to Physics and Engineering. The course will cover study of continuity, differentiation and integration of real functions. In this course students will learn the theory of sequences and series.

MATH 1141 Calculus I for Chemistry, Engineering, and Physics Majors 4 Credits
Prerequisite(s): 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 this course unless they have a solid background in high school algebra and precalculus.

MATH 1142 Calculus II for Chemistry, Engineering, and Physics Majors 4 Credits
Prerequisite(s): MATH 1141 or MATH 1171.
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.

MATH 1171 Calculus I 4 Credits
Prerequisite(s): 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 this course unless they have a solid background in high school algebra and precalculus. Students who have received credit for MATH 1121 or MATH 1141 may not take this course for credit.

MATH 1172 Calculus II 4 Credits
Prerequisite(s): MATH 1141 or MATH 1171.
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 MATH 1122 or MATH 1142 may not take this course for credit.

MATH 2211 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 MATH 2211 and MATH 2235.

MATH 2217 Statistics I 3 Credits
Course Tags: Environmental Studies: Applied Professional Skills
Prerequisite(s): MATH 1121 or MATH 1122 or MATH 1141 or MATH 1142 or MATH 1171 or MATH 1172.
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 MATH 3317 or MATH 3352 may not take this course for credit.

MATH 2223 Applied Calculus III 3 Credits
Prerequisite(s): MATH 1122 or MATH 1142 or MATH 1172.
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 MATH 1121, MATH 1122, MATH 2223.

MATH 2231 Discrete Mathematics 3 Credits
This course introduces methods of mathematical proof. Topics in this course include logic, sets, functions, quantifiers, equivalence relations and partitions, and proof techniques including mathematical induction.

MATH 2235 Linear Algebra 3 Credits
Prerequisite(s): MATH 2231.
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 MATH 2211 and MATH 2235.

MATH 2243 Calculus III for Chemistry, Engineering, and Physics Majors 4 Credits
Prerequisite(s): MATH 1142 or MATH 1172.
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.

MATH 2251 Ordinary Differential Equations 3 Credits
Prerequisite(s): MATH 2223 or MATH 2243 or MATH 2273.
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 MATH 3331 may not take this course for credit.

MATH 2253 Applied Probability Theory 3 Credits
Prerequisite(s): A calculus II course (MATH 1172 or MATH 1142 or MATH 1122).
This is an applied, calculus-based probability theory course. The emphasis of the course will be on understanding and applying the theories and main tools of probability. Students will learn about and use common discrete and continuous probability models. There will be heavy emphasis on applications and computer simulations. Differential and integral calculus will be used throughout the course. [Does not count towards the Math Major or Mathematical Statistics minor. This course can count towards either the Mathematics Minor or the Applied Statistics minor, not both.]

MATH 2273 Multivariable Calculus 4 Credits
Prerequisite(s): MATH 1142 or MATH 1172.
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.

MATH 3301 Topics in Discrete Mathematics 3 Credits
Prerequisite(s): MATH 2231.
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).

MATH 3317 Applied Statistics I 3 Credits
Course Tags: Educational Studies Cognate
Prerequisite(s): MATH 2243 or MATH 2273.
This course introduces students to applied statistical methods used in the physical sciences, social sciences and business. Topics include probability, descriptive and exploratory statistics using analytic and graphical tools, basic statistical testing (sampling techniques, theory of estimation and standard hypothesis tests), regression analysis (simple linear regression, multivariate regression, and model building, as time permits), correlation techniques, and analysis of variance and factorial designs, if time permits. Students will be required to bring a laptop to class, and a statistical software package such as R, SPSS, or Minitab, will be used extensively, though no prior experience will be assumed. Students who have received credit for MATH 2217 may not receive credit for this course.

MATH 3331 Applied Mathematics 3 Credits
Prerequisite(s): MATH 2235 and (MATH 2243 or, MATH 2273).
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 MATH 2251 may not take this course for credit.

MATH 3332 Partial Differential Equations 3 Credits
Prerequisite(s): MATH 2243 or MATH 2273; MATH 2251 or MATH 3331.
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.

MATH 3336 Abstract Algebra 3 Credits
Prerequisite(s): MATH 2231, MATH 2235.
Students will study introductory group theory. Topics include the definition and examples of groups, cyclic groups and Cauchy's Theorem, permutation groups and Cayley's Theorem, group homomorphisms and isomorphisms, subgroups and cosets, Lagrange's Theorem, and the Isomorphism Theorems.

MATH 3337 Number Theory 3 Credits
Course Tags: Educational Studies Cognate
Prerequisite(s): MATH 2231.
Prerequisite: MATH 2231. This study of the integers includes but is not limited to: primes and their distribution, divisibility and congruences, quadratic reciprocity, special numerical functions such as Euler's phi-function, and Diophantine equations. Students consider the influence number theory has had on the development of algebra and the interplay between the two.

MATH 3342 Theory of Computation 3 Credits
Prerequisite(s): MATH 2231.
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.

MATH 3345 Functional Programming 3 Credits
Prerequisite(s): CPSC 1101, MATH 2231.
This course provides an introduction to the theory and practice of programming in the functional paradigm. Functional programming is based on a view of 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 basic calculation in the functional style, recursion, data types, higher-order functions, and user interactions. This course is intended for students with some imperative programming experience who wish to expand their knowledge.

MATH 3351 Probability Theory 3 Credits
Course Tags: Educational Studies Cognate
Prerequisite(s): MATH 2231 or CPEG 2245; MATH 2243 or MATH 2273.
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.

MATH 3352 Mathematical Statistics 3 Credits
Course Tags: Educational Studies Cognate
Prerequisite(s): MATH 3351.
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.

MATH 3354 Actuarial Problem Solving 1 Credit
Prerequisite(s): MATH 3351 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.

MATH 3361 Topics in Algebra 3 Credits
Prerequisite(s): MATH 3336.
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.

MATH 3371 Real Analysis 3 Credits
Prerequisite(s): MATH 2231, (MATH 1142 or MATH 1172) This course examines the set of real numbers as a complete, ordered, Archimedean field.
Topics covered in this course include countability; convergence of sequences of numbers and functions; compactness of sets; continuity of functions; and differentiation of functions.

MATH 3373 Complex Analysis 3 Credits
Prerequisite(s): MATH 2231, MATH 2273.
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.

MATH 3377 Numerical Analysis 3 Credits
Prerequisite(s): (MATH 1142 or MATH 1172) and , MATH 2235 and , proficiency in a computer language.
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.

MATH 3383 Modern Geometry 3 Credits
Prerequisite(s): MATH 2235 This course is an introduction to the modern study of geometry and geometric spaces.
Topics may include: the foundations for plane geometries; Euclidean, spherical, projective, finite, and hyperbolic geometries; models for geometries; Möbius transformations; isometries; tilings of geometric spaces; constructions and constructability; higher dimensional objects and geometries; and introductory Riemannian geometry.

MATH 3385 Point Set Topology 3 Credits
Prerequisite(s): MATH 3371.
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.

MATH 4391 Honors Seminar I 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.

MATH 4392 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.

MATH 4900 Special Topics (Shell) 3 Credits
Prerequisite(s): MATH 2231, 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.

MATH 4980 Internship 1-3 Credits
Prerequisite(s): 3.0 minimum GPA The internship program provides mathematics majors with opportunities to gain practical, career-related experience in a variety of supervised field settings.
For a typical 3-credit internship, students spend a minimum of 10 hours per week working at the placement site and complete the required academic component specified by their faculty advisor. An on-site supervisor and internal mathematics faculty advisor evaluate student work, with the grade assigned by the faculty advisor. Internship credits can vary and interns may register for a summer session and/or one or two semesters for an overall maximum of six credits. An internship may not take the place of a mathematics elective. Enrollment by permission only.

MATH 4990 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.

MATH 5401 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.

MATH 5417 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.

MATH 5418 Applied Statistics II 3 Credits
Prerequisite(s): MATH 5417.
This course is a continuation of MATH 5417 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.

MATH 5435 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 MATH 5401.

MATH 5436 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 homeeomorphisms; ring of polynomials, division algorithm for polynomials, divisibility algorithm, irreducible elements and unique factorization properties, roots and irreducibility; quotients rings, prime and maximal ideals; Euclideian 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.

MATH 5451 Probability Theory 3 Credits
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.

MATH 5452 Statistics Theory 3 Credits
Prerequisite(s): MATH 5451.
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.

MATH 5471 Real Analysis 3 Credits
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.

MATH 5472 Complex Analysis 3 Credits
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.

MATH 5900 Special Topics (Shell) 3 Credits
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.

MATH 6510 Foundations and Set Theory 3 Credits
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.

MATH 6531 Dynamical Systems 3 Credits
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 matric theory or linear algebra, which is well-covered by MATH 5401.

MATH 6532 Partial Differential Equations 3 Credits
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 matric theory or linear algebra, which is well-covered by MATH 5401.

MATH 6535 Advanced Abstract Algebra 3 Credits
Prerequisite(s): MATH 5436.
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.

MATH 6537 Number Theory 3 Credits
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.

MATH 6550 Classical Financial Mathematics 3 Credits
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.

MATH 6565 Use of Technology in the Classroom 3 Credits
Designed for teachers, this course surveys various mathematical technology accessible various computer software mathematics packages suitable for use in the classroom, such as GeoGebra and Desmos, and also explores the integration of AI into classroom instruction. The course includes a tutorial on how to use each technology and demonstrates how they can be incorporated into a classroom setting. Students should have a solid background in undergraduate mathematics through second-semester calculus.

MATH 6577 Numerical Analysis 3 Credits
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.

MATH 6578 Math of Financial Derivatives 3 Credits
Prerequisite(s): MATH 6550.
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.

MATH 6583 Geometry 3 Credits
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.

MATH 6585 Topology 3 Credits
Prerequisite(s): MATH 5471.
This course provides an introductory, graduate-level treatment of point-set and algebraic topology and topological methods. This is a proof-intensive course.

MATH 6990 Independent Study 3 Credits
The Master's Degree Program in Mathematics affords each student the opportunity to do an independent study course with a professor or 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.

MATH 6999 Capstone Project 0 Credits
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.

Mechanical Engineering (MEEG)

MEEG 2201 Engineering Statics 3 Credits
Prerequisite(s): PHYS 1171.
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.

MEEG 2203 Kinematics and Dynamics 3 Credits
Prerequisite(s): MEEG 2201.
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.

MEEG 2206L Mechanics Lab 1 Credit
Fee: $132 Mechanical Engineering Lab Fee
Corequisite(s): MEEG 2201.
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.

MEEG 2207 Materials Science 3 Credits
Course Tags: Environmental Studies Elective, Environmental Studies Major Elective, Environmental Studies: Natural Science
Corequisite(s): CHEM 1171.
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.

MEEG 2307L Dynamics Systems Lab 1 Credit
Fee: $132 Mechanical Engineering Lab Fee
Corequisite(s): MEEG 2203, MEEG 3308.
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.

MEEG 3241 Principles of Thermodynamics 3 Credits
Prerequisite(s): PHYS 1171.
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, as well as 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.

MEEG 3308 Strength of Materials 3 Credits
Prerequisite(s): MATH 1142, MEEG 2201.
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.

MEEG 3311 Machine Design 3 Credits
Prerequisite(s): MEEG 3308.
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, gears, 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).

MEEG 3318 Finite Element Analysis 3 Credits
Prerequisite(s): ENGR 2130, MEEG 3308, and PHYS 3324.
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 mechanics and materials. 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.

MEEG 3342 Applications of Thermodynamics 3 Credits
Prerequisite(s): MEEG 3241.
This course applies concepts learned in MEEG 3241. 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.

MEEG 3347 Fluid Mechanics 3 Credits
Prerequisite(s): MATH 2251 and MEEG 3241.
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.

MEEG 3348L Thermal and Fluids Lab 1 Credit
Fee: $132 Mechanical Engineering Lab Fee
Corequisite(s): MEEG 3342, MEEG 3347.
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.

MEEG 4310L Product Manufacturing Lab 1 Credit
Fee: $132 Mechanical Engineering Lab Fee
Corequisite(s): MEEG 4312.
This laboratory provides practical concepts of machining processes, including milling, turning, and cutting. Students develop the knowledge and skills required in CNC programming, machine setup and operation, manual machining, and metrology. Students machine metal parts by cutting, drilling, pocketing, and contouring. This laboratory emphasizes the practical application of CNC machine tools and manual machining, involving set-ups and operation procedures. Graduate equivalent: MEEG 5310L.

MEEG 4312 Advanced Product Design and Manufacturing 3 Credits
Corequisite(s): MEEG 4310L.
Prerequisite(s): Senior Standing.
This hands-on course presents design principles, design for manufacturing, and assembly (DFMA) mythologies. Students learn to choose the best manufacturing process and appropriate material for a product considering shape, size, weight, production rate, and tolerances. The course also covers geometric dimensioning and tolerancing components (GD&T). The concepts of computer-aided design (CAD) and computer-aided manufacturing (CAM) are covered using SolidWorks and Mastercam software. Students are taught CNC programming (G-code, M-code) applied on CNC lathes and mills. Students apply their knowledge within the semester by designing and fabricating a product. The course comprises lectures, a computer lab, a machine tool lab, a group project, and individual assignments.

MEEG 4319 Applications of Finite Element Analysis 3 Credits
Prerequisite(s): MEEG 3318.
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 reviewed. 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. Graduate equivalent: MEEG 5319.

MEEG 4321 Theory and Applications of Robot Kinematics 3 Credits
Prerequisite(s): MEEG 2203.
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. Graduate equivalent: MEEG 5321.

MEEG 4322 Advanced Dynamics 3 Credits
Prerequisite(s): MEEG 2203.
The topics in the area of dynamics include degrees of freedom, generalized coordinates, constraints, physics of failure, flexures, and optical mechanics. The course will focus on practical applications of advanced dynamics, including linkages, cams, and kinematic mechanisms, as well as computer applications and project design. Graduate equivalent: MEEG 5322.

MEEG 4323 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. Graduate equivalents: ECEG 5323, MEEG 5323.

MEEG 4324 Micro and Nano Manufacturing 3 Credits
Prerequisite(s): CHEM 1171, MEEG 2207, PHYS 1171, Senior standing.
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. Graduate equivalent: MEEG 5324.

MEEG 4325 Engineering Systems Dynamics 3 Credits
Prerequisite(s): MEEG 3318.
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.

MEEG 4327 Fracture Mechanics 3 Credits
Prerequisite(s): MEEG 3308.
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. Graduate equivalent: MEEG 5327.

MEEG 4330 Mechanics of Composite Materials 3 Credits
Prerequisite(s): MEEG 3308.
Engineered composite materials are finding increased use in many high-technology applications such as aerospace, automotive, sporting goods, and structural components as robust durable systems. This course is designed to provide a comprehensive understanding of classification, processing, properties, selection, design, and failure of polymer, metal, and ceramic based composite materials. Micro-mechanical and macro-mechanical analysis capabilities will be used to assess composite structures. Stiffness and strength evaluation, software simulation, and optimization are used in a laminated composite design application. Graduate equivalent: MEEG 5330.

MEEG 4346 Energy Conversion 3 Credits
Prerequisite(s): MEEG 3347.
This course covers the major topics in renewable energy conversion: (1) renewable energy generation technologies including wind, solar photovoltaic, geothermal, hydropower, and biomass; (2) energy storage and related technologies including Battery Energy Storage Systems (BESS); green hydrogen, and fuel cells; and (3) renewable energy resource assessment. The course also includes highly practical and market-oriented instruction related to renewable energy project development, economic analysis, and project scheduling and management. Graduate equivalent: MEEG 5346.

MEEG 4349 Heat Transfer 3 Credits
Prerequisite(s): PHYS 3324, MEEG 3347.
This course covers one- and two-dimensional heat conduction, the electrical analogy in heat transfer, steady state heat transfer by conduction and convection through multiple planar, cylindrical, and spherical layers and the concept of critical radius. Heat transfer solutions for extended surfaces and solutions for transient problems; convection heat transfer in laminar and turbulent flows; fundamental radiation concepts; laws of thermal radiation; radiation exchange; heat exchangers and electrical analogies. 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.

MEEG 4350L Energy Transfer Lab 1 Credit
Fee: $132 Mechanical Engineering Lab Fee
Corequisite(s): MEEG 4325, MEEG 4349.
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.

MEEG 4353 Computational Fluid Dynamics 3 Credits
Prerequisite(s): ENGR 2145, MEEG 3347.
This course is an introduction to computational methods used for the solution of advanced fluid dynamics problems, using commercially available ANSYS-Fluent software. Emphasis is placed 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. There is a focus on the engineering and scientific computing environment. Topics may include waves, advanced numerical methods (e.g. spectral, finite element, finite volume), non-uniform grids, turbulence modeling, and methods complex boundary conditions. Students will work on a final computational project and will present findings to the class. Graduate equivalent: MEEG 5353.

MEEG 4354 Heat and Mass Transfer 3 Credits
Prerequisite(s): MEEG 4349.
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. Graduate equivalent: MEEG 5354.

MEEG 4356 Renewable Wind Energy 3 Credits
Prerequisite(s): MEEG 3308, MEEG 3347.
This course will give students a comprehensive introduction to wind energy systems, a practical means of extracting green and renewable energy. Topics covered include a historical perspective of wind turbines, aerodynamics of wind turbines, Mechanics and dynamics, material and components, aeroelasticity and control systems, statistical wind modeling, wind energy system economics, and environmental considerations such as noise and aesthetics. Graduate equivalent: MEEG 5356.

MEEG 4358 Heating, Ventilation, and Air Conditioning Systems Design 3 Credits
Prerequisite(s): MEEG 3342.
Heat loss and heat gain calculations for commercial and industrial buildings using Trane Engineering software. Students will learn how to layout and design HVAC systems per given building architectural plans, using computer software, codes, standards, and owner's requirements. Students will select appropriate HVAC equipment, size duct and piping systems, and conduct economic analysis. Energy estimating methods will be studied and an analysis of an actual building conducted. Current federal, state, and local codes and ASHRAE standards will be examined. Graduate equivalent: MEEG 5358.

MEEG 4362 Gas Turbine Aerodynamics 3 Credits
Prerequisite(s): MEEG 3347.
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. Graduate equivalent: MEEG 5362.

MEEG 4364 Combustion 3 Credits
Prerequisite(s): MEEG 3342.
An introduction to combustion, this course covers the study of combustion science based on the background of thermodynamics, fluid mechanics, and heat transfer. Basic principles of combustion, including thermochemical equilibrium, flame temperature, energy of reaction, chemical kinetics, and flame structure are discussed. Graduate equivalent: MEEG 5364.

MEEG 4372 Applications of Theory of Elasticity 3 Credits
Prerequisite(s): MEEG 3308.
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. Graduate equivalent: MEEG 5372.

MEEG 4376 Stability of Structures 3 Credits
Prerequisite(s): MEEG 3308.
This course will give students a comprehensive introduction to the fundamentals and principles in the stability analysis of structures. The course provides a strong foundation for understanding the stability criteria and their application in everyday practice. The topics include a comprehensive overview of different stability analysis methods and their applications in columns, beam-columns, torsional stabilities, plate elements, and cylindrical shells. Graduate equivalent: MEEG 5376.

MEEG 4990 Independent Study 1-3 Credits
Prerequisite(s): Completion of non-elective mechanical engineering courses and at least one major elective.
During this design course emphasizing individual creativity, undergraduate 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.

MEEG 5301 Feedback and Control Systems 3 Credits
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 hands-on lab (hardware-based) exploration of PID control systems. Undergraduate equivalent: ENGR 4301.

MEEG 5303 Industrial Automation 3 Credits
This hands-on course teaches students about components in automation systems and automated production lines. Students learn and practice with industrial sensors, actuators, PLCs, robot arms, pneumatics devices, and electro-pneumatic components. Students create, simulate, and assemble pneumatics, electric, electronics, and electro-pneumatic control circuits. Automation software, ladder logic programming, and robot programming are also discussed. The course comprises lectures, an automation lab, individual assignments, two group projects, and an individual project. Advanced topics are assigned. Undergraduate equivalent: ENGR 4303.

MEEG 5305 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. Undergraduate equivalent: ENGR 4305.

MEEG 5310L Product Manufacturing Lab 1 Credit
Fee: $132 Mechanical Engineering Lab Fee
This laboratory provides practical concepts of machining processes, including milling, turning, and cutting. Students develop the knowledge and skills required in CNC programming, machine setup and operation, manual machining, and metrology. Students machine parts by cutting, drilling, pocketing, and contouring. This laboratory emphasizes the practical application of CNC machine tools and manual machining, involving set-ups and operation procedures. Undergraduate equivalent: MEEG 4310L.

MEEG 5312 Advanced Product Design and Manufacturing 3 Credits
Corequisite(s): MEEG 5310L.
This hands-on course presents design principles, design for manufacturing, and assembly (DFMA) mythologies. Students learn to choose the best manufacturing process and appropriate material for a product considering shape, size, weight, production rate, and tolerances. The course also covers geometric dimensioning and tolerancing components (GD&T). The concepts of computer-aided design (CAD) and computer-aided manufacturing (CAM) are covered using SolidWorks and Mastercam software. Students are taught CNC programming (G-code, M-code) applied on CNC lathes and mills. Students apply their knowledge within the semester by designing and fabricating a product. The course comprises lectures, a computer lab, a machine tool lab, a group project, and individual assignments. Students will work on a class research project.

MEEG 5319 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 reviewed. 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. Undergraduate equivalent: MEEG 4319.

MEEG 5321 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. Undergraduate equivalent: MEEG 4321.

MEEG 5322 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. Undergraduate equivalent: MEEG 4322.

MEEG 5323 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. Undergraduate equivalent: MEEG 4323.

MEEG 5324 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. Undergraduate equivalent: MEEG 4324.

MEEG 5327 Fracture Mechanics 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. Undergraduate equivalent: MEEG 4327.

MEEG 5330 Mechanics of Composite Materials 3 Credits
Engineered composite materials are finding increased use in many high-technology applications such as aerospace, automotive, electronics, sporting goods, and structural components as robust durable systems. This course is designed to provide a comprehensive understanding of classification, processing, properties, selection, design, and failure of polymer, metal, and ceramic based composite materials. Micro-mechanical and macro-mechanical analysis capabilities will be used to assess composite structures. Stiffness and strength evaluation, software simulation, and optimization are used in a laminated composite design application. Students select a related research topic, identify a technical paper to review, and give a class presentation. Undergraduate equivalent: MEEG 4330.

MEEG 5346 Energy Conversion 3 Credits
This course covers the major topics in renewable energy conversion: (1) renewable energy generation technologies including wind, solar photovoltaic, geothermal, hydropower, and biomass; (2) energy storage and related technologies including Battery Energy Storage Systems (BESS); green hydrogen, and fuel cells; and (3) renewable energy resource assessment. The course also includes highly practical and market-oriented instruction related to renewable energy program development, economic analysis, and project scheduling and management. A research report and class presentation of an independent research on one of the emerging sources of energy or energy storage is an essential part of this course. Undergraduate equivalent: MEEG 4346.

MEEG 5353 Computational Fluid Dynamics 3 Credits
This course is an introduction to computational methods used for the solution of advanced fluid dynamics problems, using commercially available ANSYS-FLUENT software. Emphasis is placed 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. There is a focus on the engineering and scientific computing environment. Topics may include waves, advanced numerical methods (like spectral, finite element, finite volume), non-uniform grids, turbulence modeling, and methods complex boundary conditions. Students will learn how to build and implement a working computational fluid dynamics code. Students will also work on a final computational project and will present findings to the class. Undergraduate equivalent: MEEG 4353.

MEEG 5354 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. Undergraduate equivalent: MEEG 4354.

MEEG 5356 Renewable Wind Energy 3 Credits
This course will give students a comprehensive introduction to wind energy systems, a practical means of extracting green and renewable energy. Topics covered include a historical perspective of wind turbines, aerodynamics of wind turbines, Mechanics and dynamics, material and components, aeroelasticity and control systems, statistical wind modeling, wind energy system economics, and environmental considerations such as noise and aesthetics. Students will work on a class research project. Undergraduate equivalent: MEEG 4356.

MEEG 5358 Heating, Ventilation, and Air Conditioning Systems Design 3 Credits
Heat loss and heat gain calculations for commercial and industrial buildings using Trane Engineering software. Students will learn how to layout and design HVAC systems per given building architectural plans, using computer software, codes, standards, and owner's requirements. Students will select appropriate HVAC equipment, size duct and piping systems, and conduct economic analysis. Energy estimating methods will be studied and an analysis of an actual building conducted. Current federal, state, and local codes and ASHRAE standards will be examined. Students will work on a class research project. Undergraduate equivalent: MEEG 4358.

MEEG 5362 Gas Turbine Aerodynamics 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. Undergraduate equivalent: MEEG 4362.

MEEG 5364 Combustion 3 Credits
An introduction to combustion, this course covers the study of combustion science based on the background of thermodynamics, fluid mechanics, and heat transfer. Basic principles of combustion, including thermochemical equilibrium, flame temperature, energy of reaction, chemical kinetics, and flame structure are discussed. This course also introduces some important chemical mechanisms and combustion modifications for pollutant control. Undergraduate equivalent: MEEG 4364.

MEEG 5372 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 complete a group project on an advanced topic covered in class and write a research report. Undergraduate equivalent: MEEG 4372.

MEEG 5376 Stability of Structures 3 Credits
This course will give students a comprehensive introduction to the fundamentals and principles in the stability analysis of structures. The course provides a strong foundation for understanding the stability criteria and their application in everyday practice. The topics include a comprehensive overview of different stability analysis methods and their applications in columns, beam-columns, torsional stabilities, plate elements, and cylindrical shells. Students will work on class project/research. Undergraduate equivalent: MEEG 4376.

MEEG 5410 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.

MEEG 5415 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. Undergraduate equivalent: ENGR 4415. Crosslisted with ECEG 5415.

MEEG 5990 Independent Study 3 Credits
Graduate students conduct a well-planned program of individual study under the supervision of a faculty member. Enrollment by departmental approval only.

MEEG 6971 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.

MEEG 6972 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 (MUSC)

MUSC 1101 The History of Jazz 3 Credits
Course Tags: American Studies: Gateway, American Studies: Visual and Performing Arts, Black Studies Focus Course, Diversity, Equality, and Inclusion Minor Elective, Educational Studies Cognate
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.

MUSC 1102 History and Development of Rock 3 Credits
Course Tags: American Studies: Gateway, American Studies: Visual and Performing Arts, Diversity, Equality, and Inclusion Minor Elective
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.

MUSC 1103 History of Music: 400-1700 3 Credits
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.

MUSC 1104 History of Music: 1700-1964 3 Credits
Course Tags: European Music
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.

MUSC 1111 Bent Note: Music and Race in the American South 3 Credits
Course Tags: American Music, American Studies: History, Black Studies Component Course
The American South is arguably the nation's most culturally rich region for popular music. The origins of blues, jazz, rock, soul, folk, country, and gospel have mightily influenced music around the world. However, there is a darker side. The deep South suffers from historically virulent racism and violence that has only worsened a crushing poverty, resulting from a resistance to change. This course is an in-depth study of the South through a musical lens, from New Orleans, Memphis and Mississippi to tobacco road. Our goal is to establish and grow an understanding of art, society, and ourselves.

MUSC 1112 Music of Black Americans 3 Credits
Course Tags: American Studies: Gateway, American Studies: Visual and Performing Arts, Black Studies Focus Course, Diversity, Equality, and Inclusion Minor Elective, Educational Studies Cognate
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.

MUSC 1120 History of American Song 3 Credits
Course Tags: American Studies: Gateway, American Studies: Visual and Performing Arts
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.

MUSC 1122 World Music History and Ensemble 3 Credits
Course Tags: Black Studies Component Course, Educational Studies Cognate, International Studies Elective, Latinx, Latin American and Caribbean Studies Minor Elective
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.

MUSC 1124 Bach and Beethoven 3 Credits
Course Tags: German Course Taught in English, German Major or Minor 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 van Beethoven, the composer who, more than any other, represents the struggle for artistic truth.

MUSC 1126 History of Choral Music 3 Credits
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.

MUSC 1132 Critical Issues in American Popular Music: Blues to Hip Hop 3 Credits
Course Tags: American Studies: Visual and Performing Arts, Black Studies Component Course, Diversity, Equality, and Inclusion Minor Elective
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 1950s, rap and hip hop culture, and issues in both postmodernism and perverse as seen by many music and art critics.

MUSC 1136 Sound Production: Digital Audio Workstation 3 Credits
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. Crosslisted with FTMA 2236.

MUSC 1150 Music Theory and Composition I 3 Credits
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.

MUSC 1155 Popular Music Theory and Composition 3 Credits
This course gives students a working knowledge of jazz and pop harmony. Students will 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.

MUSC 1156 Introduction to Music Technology: History and Practice 3 Credits
Course Tags: Educational Studies Cognate
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.

MUSC 1157 Introduction to the Music Industry 3 Credits
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.

MUSC 1243 19th Century Romanticism in Music 3 Credits
Course Tags: Italian Course Taught in English, Italian Studies: Italy-Focused
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. Previously MUSC 2243.

MUSC 1953 Jazz Ensemble 0-1 Credits
Prerequisite(s): 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.

MUSC 2201 Hip Hop Evolution: From the South Bronx to the World 3 Credits
Course Tags: American Music, Black Studies Focus Course, Diversity, Equality, and Inclusion Minor Elective, Music History
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 hop-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.

MUSC 2215 American Musical Theatre: History and Practice 3 Credits
Prerequisite(s): 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. Crosslisted with THTR 2215.

MUSC 2242 Music of the Classical Era 3 Credits
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.

MUSC 2244 Music of the 20th Century 3 Credits
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.

MUSC 2245 Survey of Film Music: Hearing the Movies 3 Credits
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. Crosslisted with FTMA 2245.

MUSC 2250 Music Theory and Composition II 3 Credits
Prerequisite(s): MUSC 1150.
In this course, 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.

MUSC 2900 Special Topics in Music: Group voice, Technique and practice 3 Credits
Course Tags: Magis Core Exploration: VPA
Prerequisite(s): One 1000-level music course.
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.

MUSC 3911 Private Lessons: Bass 0-2 Credits
Fee: $735 Music Lesson Fee

MUSC 3912 Private Lessons: Bassoon 0-2 Credits
Fee: $735 Music Lesson Fee

MUSC 3913 Private Lessons: Cello 0-2 Credits
Fee: $735 Music Lesson Fee

MUSC 3914 Private Lessons: Clarinet 0-2 Credits
Fee: $735 Music Lesson Fee

MUSC 3915 Private Lessons: Flute 0-2 Credits
Fee: $735 Music Lesson Fee

MUSC 3916 Private Lessons: Guitar 0-2 Credits
Fee: $735 Music Lesson Fee

MUSC 3917 Private Lessons: Harp 0-2 Credits
Fee: $735 Music Lesson Fee

MUSC 3918 Private Lessons: Oboe 0-2 Credits
Fee: $735 Music Lesson Fee

MUSC 3919 Private Lessons: Percussion 0-2 Credits
Fee: $735 Music Lesson Fee

MUSC 3920 Private Lessons: Piano 0-2 Credits
Fee: $735 Music Lesson Fee

MUSC 3921 Private Lessons: Beginning Piano 0-2 Credits
Fee: $735 Music Lesson Fee

MUSC 3922 Private Lessons: Jazz/Pop Piano 0-2 Credits
Fee: $735 Music Lesson Fee

MUSC 3923 Private Lessons: Saxophone 0-2 Credits
Fee: $735 Music Lesson Fee

MUSC 3924 Private Lessons: Trombone 0-2 Credits
Fee: $735 Music Lesson Fee

MUSC 3925 Private Lessons: Trumpet 0-2 Credits
Fee: $735 Music Lesson Fee

MUSC 3926 Private Lessons: Violin 0-2 Credits
Fee: $735 Music Lesson Fee

MUSC 3927 Private Lessons: Viola 0-2 Credits
Fee: $735 Music Lesson Fee

MUSC 3928 Private Lessons: Voice 0-2 Credits
Fee: $735 Music Lesson Fee

MUSC 3951 Instrumental Ensembles 0-1 Credits
Prerequisite(s): 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 repeated each semester. Previously MUSC 1951.

MUSC 3953 Jazz Ensemble 0-1 Credits
Prerequisite(s): 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 repeated each semester. Previously MUSC 1953.

MUSC 3955 University Glee Club 0-1 Credits
The University Glee Club is a mixed-voice choral ensemble, providing student singers opportunities to work on vocal technique; enhance their musical skills; and perform on campus in concert and at University events, and off campus in concert venues in the region and beyond. Through a regular schedule of rehearsals and performances, students learn vocal music in variety of styles, including Renaissance polyphony, liturgical and other sacred music of various eras and traditions, oratorio, Spirituals, American folk music, and Musical Theatre, among others. This course may be repeated each semester.

MUSC 3980 Internship 1-3 Credits
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 three credits towards a minor. Open to music majors and minors only. Enrollment by permission only.

MUSC 3990 Independent Study 1-3 Credits
Course Tags: Music History
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.

MUSC 4998 Senior Capstone Project I 3 Credits
Course Tags: Music History
The capstone project provides opportunities for majors to work at a very high level, reflecting their expertise and ongoing research. Enrollment by permission only.

MUSC 4999 Senior Capstone Project II 3 Credits
Course Tags: Applied Music
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 (NURS)

NURS 1110 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.

NURS 1112 Healthcare Delivery Systems 3 Credits
Course Tags: Diversity, Equality, and Inclusion Minor Elective, Educational Studies Cognate, 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.

NURS 2270 Health Assessment 4 Credits
Prerequisite(s): BIOL 1108, CHEM 1184, NURS 1110.
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.

NURS 2270L Health Assessment Lab 0 Credits

NURS 2272 Geriatric Nursing 4 Credits
Prerequisite(s): BIOL 1151*, NURS 1110, NURS 1112, NURS 2270*, PSYC 1110*.
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)

NURS 2272C Geriatric Nursing Clinical 0 Credits

NURS 2303 Basic Pathophysiology and Pharmacology 3 Credits
Prerequisite(s): BIOL 1108, CHEM 1184.
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.

NURS 2900 Special Topics (Shell) 1-3 Credits
This intermediate-level course focuses on a specific issue or topic within nursing. 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.

NURS 3301 Health and Wellness 3 Credits
Prerequisite(s): NURS 2270, NURS 2272*.
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)

NURS 3305 Mental Health Nursing 4 Credits
Prerequisite(s): BIOL 1151*, NURS 1110, NURS 1112, NURS 2270*, NURS 2303*, PSYC 1110*.
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)

NURS 3305C Mental Health Nursing Clinical 0 Credits

NURS 3307 Fundamentals of Nursing Care 4 Credits
Prerequisite(s): MATH 1016 or higher, NURS 2270.
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.

NURS 3307L Fundamentals of Nursing Care Lab 0 Credits

NURS 3310 Foundations of Research for Evidence Based Practice 3 Credits
Prerequisite(s): MATH 1017 or MATH 2217.
This course aims to introduce 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. Applicability to clinical research and evidence-based practice is considered and translated. An emphasis is placed on clinical reasoning and writing skills. When evaluating student writing, consideration is given to the ability to communicate the main idea or topic, mechanics and organization of writing, use of supporting evidence, and relevance of the content. 42 theory hours.

NURS 3312 Medical Surgical Nursing I 5 Credits
Prerequisite(s): NURS 2303, NURS 3301*, NURS 3305*, NURS 3307.
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)

NURS 3312C Medical Surgical Nursing I Clinical 0 Credits

NURS 3314 Maternal and Newborn Nursing 4 Credits
Course Tags: Women, Gender, and Sexuality Studies: Gender Focused
Prerequisite(s): NURS 3312*.
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)

NURS 3314C Maternal and Newborn Nursing Clinical 0 Credits

NURS 4321 Professional Nursing Leadership 3 Credits
Prerequisite(s): NURS 2250* or NURS 4325*; NURS 3310*.
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)

NURS 4323 Pediatric Nursing 4 Credits
Prerequisite(s): NURS 3312*.
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)

NURS 4323C Pediatric Nursing Clinical 0 Credits

NURS 4325 Medical Surgical Nursing II 5 Credits
Prerequisite(s): NURS 3310*, NURS 3312.
This course continues the study of nursing care for patients with illnesses common in the adult population. The theoretical framework of the nursing process is used to demonstrate effectiveness in planning and providing holistic evidence-based nursing care for diverse individuals and populations. Professional communication and interprofessional collaboration will be utilized in the delivery of patient-centered care. 42 theory hours, 84 clinical hours. (*indicates concurrency allowed)

NURS 4325C Medical Surgical Nursing II Clinical 0 Credits

NURS 4330 Population Health 4 Credits
Course Tags: Health Studies: Traditions, Delivery, and Ethics, Latinx, Latin American and Caribbean Studies Minor Elective
Prerequisite(s): NURS 2250* or NURS 4325*.
This course focuses on the care of people in their homes, in communities, and around the world. Principals 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)

NURS 4330C Population Health Clinical 0 Credits

NURS 4332 Transition to Professional Nursing 4 Credits
Prerequisite(s): NURS 3314, NURS 4321*, NURS 4323, NURS 4330*.
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 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. 126 clinical hours. 14 hours or one credit for theory. (*indicates concurrency allowed)

NURS 4332C Transition to Professional Nursing Clinical 0 Credits

NURS 4356 Transition Seminar for Professional Nursing 3 Credits
Prerequisite(s): Connecticut RN license, NURS 4321*, NURS 4330*.
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)

NURS 4360 Critical Care Nursing 3 Credits
Fee: $262 Nursing ECCO Fee
Prerequisite(s): NURS 4325.
This elective course is an introduction in caring for complex patient conditions. The focus is placed on evidence-based practice of the care for the critically ill patient, including veterans. Students gain skills in situational awareness, critical illnesses, and advanced nursing interventions. Common issues such as symptom management, psychosocial challenges, and ethical dilemma across the lifespan are discussed. Nursing implications for the care of the complex patients are addressed.

NURS 4365 Forensic Science in the Health Care Setting 3 Credits
Course Tags: Health Studies: Science and Technology, Health Studies: Traditions, Delivery, and Ethics
Corequisite(s): NURS 4325, NURS 3314, NURS 4323.
Prerequisite(s): NURS 3312.
This course explores forensic science and its intersection with health care by discussing the interdisciplinary team working to serve patients who may also be victims of crime. From a health care perspective, students learn types of violent crimes, victimology, prevalent population based health issues, trauma-informed care, and forensic healthcare interventions. From a forensic scientific perspective, students explore the scientific techniques used to analyze physical or chemical evidence collected in a health care setting. Students put their learning into practice by participating in caring for victims of mock crimes in simulated clinical rooms, and analyzing collected evidence in the laboratory. Crosslisted with CHEM 3111.

NURS 4990 Independent Study 1-6 Credits
Through individually designed projects or activities, students work with a faculty member to study a specific area in depth. Enrollment by permission only.

NURS 4990C Independent Study in Clinical Practice 0 Credits
Prerequisite(s): Senior standing.
This pre-immersion program for BSN students has been designed to provide students with an opportunity to further develop their knowledge of the provider of care role of the registered nurse through an additional clinical experience focusing on care management of patients with complex health needs. This collaborative program provides senior-level baccalaureate nursing students from Fairfield University Egan School a preceptor-led experience in patient care. The overarching goal of the program is to provide an immersive experience designed to prepare students for a more seamless transition to the registered nurse role.

NURS 5110 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. Undergraduate equivalent: NURS 1110.

NURS 5272 Geriatric Nursing 4 Credits
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. Undergraduate equivalent: NURS 2272.

NURS 5272C Geriatric Nursing Clinical 0 Credits
Geriatric Nursing Clinical

NURS 5305 Mental Health Nursing 4 Credits
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. Undergraduate equivalent: NURS 3305.

NURS 5305C Mental Health Nursing Clinical 0 Credits

NURS 5307 Fundamentals of Nursing Care 4 Credits
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. Undergraduate equivalent: NURS 3307.

NURS 5307L Fundamentals of Nursing Care Lab 0 Credits

NURS 5312 Medical Surgical Nursing I 5 Credits
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. Undergraduate equivalent: NURS 3312.

NURS 5312C Medical Surgical Nursing Clinical 0 Credits

NURS 5314 Maternal and Newborn Nursing 4 Credits
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. Undergraduate equivalent: NURS 3314.

NURS 5314C Maternal and Newborn Nursing Clinical 0 Credits

NURS 5323 Pediatric Nursing 4 Credits
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. Undergraduate equivalent: NURS 4323.

NURS 5323C Pediatric Nursing Clinical 0 Credits
Pediatric Nursing Clinical

NURS 5325 Medical Surgical Nursing II 5 Credits
This course continues the study of nursing care for patients with illnesses common in the adult population. The theoretical framework of the nursing process is used to demonstrate effectiveness in planning and providing holistic evidence-based nursing care for diverse individuals and populations. Professional communication and interprofessional collaboration will be utilized in the delivery of patient-centered care. 42 theory hours, 84 clinical hours. Undergraduate equivalent: NURS 4325.

NURS 5325C Medical Surgical Nursing II Clinical 0 Credits
Medical Surgical Nursing II Clinical

NURS 5330 Population Health 4 Credits
This course focuses on the care of people in their homes, in communities, and around the world. Principals 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. Undergraduate equivalent: NURS 4330.

NURS 5330C Population Health Clinical 0 Credits

NURS 5332 Transition to Professional Nursing 4 Credits
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. Undergraduate equivalent: NURS 4332.

NURS 5332C Transition to Professional Nursing Clinical 0 Credits

NURS 5360 Critical Care Nursing 3 Credits
Fee: $262 Nursing ECCO Fee
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. Undergraduate equivalent: NURS 4360.

NURS 6521 Healthcare Leadership Roles for Systems Improvement 3 Credits
Fee: $25 Nursing IHI Fee
This course provides evidence-based knowledge and skills to maximize the development of one's leadership role in evolving and challenging health care systems. Healthcare leadership roles will be explored from the perspectives of the interprofessional team members. 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 health care improvement, and to examine strategies that will develop future 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.

NURS 6523 Quality Outcomes Management I 5 Credits
Prerequisite(s): NURS 6521, NURS 7601, NURS 7604, NURS 7605, NURS 7608, NURS 7614, NURS 7640, NURS 7641.
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; 150 clinical hours.

NURS 6524 Quality Outcomes Management II 5 Credits
Prerequisite(s): NURS 6523.
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.

NURS 6951 Master's Leadership Practicum 4 Credits
Prerequisite(s): NURS 6521, NURS 7601, NURS 7604, NURS 7605, NURS 7608, NURS 7614, NURS 7620, NURS 7641.
This practicum builds upon experiences gained in the Master of Science in Nursing curriculum to expand student opportunities in leadership, quality improvement and other essential competencies. Students and faculty develop specific practicum goals that lead to increasing independence, knowledge and accountability in practice. Students work alongside leaders in a variety of healthcare settings to gain new perspectives of healthcare complexity and leadership skills. Practicum projects reflect collaboration, 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, learning experiences, evidence and insight into the dynamic needs of healthcare organizations.

NURS 6990 Independent Study 1-5 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 and dean only.

NURS 7601 Epidemiology and Biostatistics 3 Credits
This course presents epidemiologic principles and biostatistical methods for the presentation and analysis of health-related data. Data from a variety of sources will be used to draw inferences about the health status of populations. Biostatistical techniques are used to examine relationships among contributing factors for population health in order to plan and evaluate health services and programs. Epidemiological methods for conducting studies will be discussed in detail, with an emphasis on group and population methods. Ethical issues related to the application of biostatistics and data privacy, such as IRB requirements, genomics, population genetics, clinical trials, and public health epidemiological studies are addressed.

NURS 7602 Healthcare Economics and Marketing 3 Credits
This course begins by applying microeconomic theory to the health sector of the U.S. economy with a focus on financial incentives throughout the healthcare system. Topics include the demand for healthcare and health insurance, quality improvement, managed care and the role of government. The U.S. experience is compared to healthcare systems in other countries. Evidence-based skills include cost analysis and business plan and budget development. 42 theory hours.

NURS 7604 Advanced Health Assessment 4 Credits
Prerequisite(s): Demonstrated competency in basic health assessment. This core course focuses on the holistic and comprehensive health assessment of individuals and families from diverse populations. Its purpose is to provide a foundation for primary prevention and health promotion through appropriate screening and risk assessment. The course also includes history-taking, advanced physical examination, and the introduction of laboratory assessment data. The course provides students with the opportunity to develop the comprehensive assessment skills required for advanced nursing practice and advanced education generalist roles. Case analysis is used to integrate critical thinking and develop differential diagnosis and treatment plans for clients across environments of care. All students participate in a 1-credit nursing lab, which provides an opportunity to develop comprehensive health assessment skills at an advanced level. Clinical Exam fee for FNP students: Approximately $200. 28 theory hours, 56 lab hours.

NURS 7605 Advanced Health Policy 3 Credits
The focus of this course is on contemporary health policy, its development and implementation, and ways that public health and healthcare system leaders, can influence it. Students will evaluate the impact of health policy on health professionals, consumers, communities, and healthcare delivery systems. Resource allocation, along with the socioeconomic, political, legal, and ethical factors that influence health policy will be examined.

NURS 7608 Research Methods for Evidence-Based Practice 3 Credits
The purpose of this course is to provide the student with the skills needed to develop either a research study proposal or a healthcare improvement proposal. This course prepares the student to identify practice problems and critique current research for relevance and application to practice. An overview of theory is presented as a vehicle for understanding public health or healthcare research. Basic concepts of qualitative and quantitative research methods will be examined in order to plan and evaluate a practice change or answer a research question. Using an evidence-based and/or research approach, students identify a clinical or public health problem within a specific population or setting, considering ethical issues. Students will develop a research study proposal or healthcare improvement proposal for implementation. Students use reflection in the evaluation of public health or healthcare system research.

NURS 7609 Role Reflective Practice for MSN-DNP Students 1 Credit
This online module course introduces reflective practice, portfolio development, and health policy for the Doctorate 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.

NURS 7610 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.

NURS 7611 Social and Behavioral Determinants of Health 3 Credits
This course presents the foundational skills required for public health and healthcare provider students to engage in a systematic approach to population health. Disease prevention and health promotion are addressed through examination of social and behavioral determinants. Evidence-based strategies inform how to identify and assess at-risk populations, implement both preventive and therapeutic interventions, and evaluate outcomes at the population level. Models of health behavior change synthesize psychological, biophysical, cultural, ecological, environmental, and social dimensions to analyze population-based outcomes. The roles of national initiatives, public policy and cultural values are explored in relation to health equity to support population health at institutional, local, state, and national levels.

NURS 7612 Research Translation for Clinical Practice 3 Credits
Prerequisite(s): NURS 7601, NURS 7608.
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 Scholarship and the philosophy of reflective practice, bridging the gap between research and practice, and outcome assessment in healthcare. The evaluation of instruments to measure quantitative 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.

NURS 7613 Finance and Quality Management in Healthcare Organizations 3 Credits
This course emphasizes finance and quality management in today's complex healthcare system from a historical perspective. Using quality improvement models, students analyze the impact of human factors, processes, and structures on healthcare quality and safety outcomes. Principles of organizational culture, risk management, and economics are considered in planning for translating existing evidence into system-wide improvement initiatives. Effective strategies are evaluated for managing the ethical dilemmas inherent in patient care and healthcare organizations. 42 theory hours.

NURS 7614 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 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.

NURS 7615 Leadership and Interprofessional Collaboration 3 Credits
The intent of this course is to facilitate the development of collaborative leadership skills for healthcare providers 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 interprofessional teams to improve outcomes for patients, families, staff, and healthcare systems. 42 theory hours.

NURS 7620 Advanced Concepts in Pathophysiology 3 Credits
This course focuses on the physiological processes central to biophysical and psycho-pathologic 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. Skills in the analysis of nutritional components of disease prevention and management will be included.

NURS 7640 Advanced Physiology and Pathophysiology 4 Credits
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. 56 theory hours.

NURS 7641 Advanced Pharmacology 3 Credits
Prerequisite(s): NURS 7620 or NURS 7640 or NSAN 7669.
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.

NURS 7642 Adult Health I 3 Credits
Prerequisite(s): NURS 7604, NURS 7641.
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 pharmacological and non-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.

NURS 7643 Adult Health II 4 Credits
Prerequisite(s): NURS 7642.
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 pharmacological and non-pharmacological approaches to the management of problems in interprofessional teams, participate in shared decision making with patients/families regarding treatment options as well as managed target goal evaluation. Nationally accepted evidence-based practice guidelines for frequent ICD code diagnoses and review of treatment costs are analyzed. 56 theory hours.

NURS 7645 Care of Children and Families 3 Credits
Corequisite(s): NURS 7952.
Prerequisite(s): NURS 7643.
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.

NURS 7647 Care of At-Risk Populations 3 Credits
Corequisite(s): NURS 7953.
Prerequisite(s): NURS 7645.
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.

NURS 7650 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.

NURS 7651 Mental Health Nursing of Children and Adolescents 2 Credits
Prerequisite(s): NURS 7650 (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.

NURS 7652 Mental Health Nursing of Individuals Across the Lifespan 3 Credits
Corequisite(s): NURS 7659.
Prerequisite(s): NURS 6521 or NURS 7609 or NURS 7610; NURS 7604, NURS 7641, NURS 7650.
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.

NURS 7659 Foundational Clinical Skills for Advanced Psychiatric Nursing Practice 3 Credits
Corequisite(s): NURS 7652.
Prerequisite(s): NURS 7650.
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.

NURS 7661 Mental Health Nursing of Groups and Families Across the Lifespan 2 Credits
Corequisite(s): NURS 7955.
Prerequisite(s): NURS 7652.
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.

NURS 7663 Primary Mental Health Nursing of At-Risk Populations Across the Lifespan 2 Credits
Corequisite(s): NURS 7956.
Prerequisite(s): NURS 7661.
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.

NURS 7667 Psychopharmacology 3 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.

NURS 7668 Palliative Care Across the Lifespan 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.

NURS 7670 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 neuro-endocrine response to stress. Tests of respiratory and cardiovascular function are reviewed and their analysis discussed. 42 theory hours.

NURS 7687 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 culminates in the completion of a scholarly DNP Project, disseminated in both the form of a conference-style poster and a publication-ready manuscript.

NURS 7687F DNP Immersion 1 Credit
See NURS 7687.

NURS 7697 DNP Seminar I 1 Credit
This seminar provides the foundation for development of 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 quality improvement project, a practice change project, a program evaluation, a policy development/improvement project, or another project with a focus on patient outcomes and practice improvement. 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 for implementation and outcome assessment. Students will continue to work with their DNP Advisor in developing the project. In addition, students will identify potential Immersion experiences that focus on achieving program outcomes.

NURS 7699 DNP Seminar II 1 Credit
Prerequisite(s): NURS 7697.
This seminar 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.

NURS 7950 CYCLE (Community Youth Collaborative Education) Clinical Hours 0 Credits
Fee: $250 PMHNP Cycle Clinical Fee
Prerequisite(s): NURS 7604.
This programming will begin in NP students' second year in the program and consist of various activities working with children, adolescents and young adults in the community including at Fairfield University. Activities will be focused on mental health screening and wellness promotion including resiliency skills.

NURS 7951 Practicum in Adult Health I 5 Credits
Fee: $1000 FNP Practicum Fee
Prerequisite(s): NURS 7643.
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.

NURS 7952 Clinical Conference Across the Lifespan: FNP Practicum I 5 Credits
Fee: $1000 FNP Practicum Fee
Corequisite(s): NURS 7645.
Prerequisite(s): NURS 7951.
Students synthesize theoretical learning about prevention, exacerbation, complications, and remission of acute and chronic illnesses in caring for patients across the lifespan from diverse backgrounds under the supervision of a nurse practitioner, physician assistant, nurse midwife, or physician. Students gain knowledge in caring for patients experiencing or anticipating potential health crises collaboratively with the interprofessional health care team. Clinical conferences provide an opportunity for discussion and sharing of issues encountered in the practicum as they relate to the diagnosis, treatment, shared decision making, management, evaluation, and prevention of illness within the interprofessional team. 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. The advanced practice role components of clinical practice, consultation, collaboration, and education are discussed and integrated in the clinical practicum and conference.

NURS 7953 Clinical Conference Across the Lifespan: FNP Practicum II 5 Credits
Fee: $1000 FNP Practicum Fee
Corequisite(s): NURS 7647.
Prerequisite(s): NURS 7952.
Students synthesize theoretical learning about prevention, exacerbation, complications, and remission of acute and chronic illnesses in caring for patients across the lifespan from diverse backgrounds under the supervision of a nurse practitioner, physician assistant, nurse midwife, or physician. Students gain knowledge in caring for patients experiencing or anticipating potential health crises collaboratively with the interprofessional health care team. Clinical conferences provide an opportunity for discussion and sharing of issues encountered in the practicum as they relate to the diagnosis, treatment, shared decision making, management, evaluation, and prevention of illness within the interprofessional team. 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. The advanced practice role components of clinical practice, consultation, collaboration, and education are discussed and integrated in the clinical practicum and conference.

NURS 7954 Practicum I: PMHNP 4 Credits
Fee: $1000 PMHNP Practicum Fee
Prerequisite(s): NURS 7652 (concurrency allowed).
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.

NURS 7955 Practicum II: PMHNP 5 Credits
Fee: $1000 PMHNP Practicum Fee
Corequisite(s): NURS 7661.
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.

NURS 7956 Practicum III: PMHNP 4-6 Credits
Fee: $1000 PMHNP Practicum Fee
Corequisite(s): NURS 7663.
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.

NURS 7990 Independent Study 1-4 Credits
Through individually designed projects or activities, students work with a faculty member to study a specific area in depth. Enrollment by permission only.

Nursing: Anesthesia (NSAN)

NSAN 7640 Professional Aspects of Nurse Anesthesia Practice I 1 Credit
Prerequisite(s): NSAN 7674.
This course provides a basic introduction for the nurse anesthesia resident on a variety of topics important for professional nurse anesthesia practice. During NSAN 7640, nurse anesthesia residents will learn vital clinical and non-clinical subject matter, including the history of anesthesia, professional organizations dedicated to anesthesiology, and review of the Professional Practice Manual for nurse anesthetists. Additionally, an emphasis on health and wellness for the anesthesia provider will be discussed, along with essential tools and information for the nurse anesthesia resident.

NSAN 7641 Professional Aspects of Nurse Anesthesia Practice II 2 Credits
Prerequisite(s): NSAN 7640.
This course provides advanced instruction for the nurse anesthesia resident on a variety of topics important for professional nurse anesthesia practice. Building upon knowledge gained in NSAN 7640 and ongoing clinical experiences, nurse anesthesia residents will learn legal considerations for the nurse anesthetist, current political trends in anesthesia practice, and the variety of business models used by anesthesiology providers. Reflective practice techniques will be utilized, with a continued emphasis on health and wellness for the anesthesia provider.

NSAN 7650 Clinical Integration for Nurse Anesthesia Practice I 2 Credits
Corequisite(s): NSAN 7677.
Prerequisite(s): NSAN 7674.
Clinical Integration I is designed to introduce nurse anesthesia residents to the hands-on basics of nurse anesthesiology practice and develop a foundation for clinical experiences in Clinical Integration II. Nurse anesthesia residents will participate in static and high-fidelity simulations as they begin to apply theoretical and didactic knowledge to prepare for clinical experiences.

NSAN 7651 Ultrasound Guided Concepts and Techniques I 2 Credits
Corequisite(s): NSAN 7651L, NSAN 7677.
Prerequisite(s): NSAN 7674.
This course introduces the nurse anesthesia resident to ultrasound technology, concepts, and techniques. It teaches students to apply knowledge of anatomy, physiology, pharmacology, basic ultrasound technology, and other related procedures under ultrasound guidance.

NSAN 7651L Ultrasound Guided Concepts and Techniques I Lab 0 Credits
Corequisite(s): NSAN 7651.
Prerequisite(s): NSAN 7674.
This lab introduces nurse anesthesia residents to the hands-on, kinesthetic basics of ultrasound- guided techniques. Students will develop technical skills for performing a variety of ultrasound-guided procedures and anesthesia techniques. Teaching methods will include demonstration, equipment workshops, reflection/debriefing, and simulation.

NSAN 7652 Ultrasound Guided Concepts and Techniques II 2 Credits
Corequisite(s): NSAN 7652L.
Prerequisite(s): NSAN 7651.
This course builds upon the knowledge and skills gained in Ultrasound-Guided Concepts and Techniques I. Nurse anesthesia residents will continue to apply their developing knowledge of anatomy, physiology, pharmacology, and advanced ultrasound technology to the administration and maintenance of regional anesthesia, patient assessment and management, and other advanced procedures under ultrasound guidance.

NSAN 7652L Ultrasound Guided Concepts and Techniques II Lab 0 Credits
Corequisite(s): NSAN 7652.
Prerequisite(s): NSAN 7651.
This course will facilitate continued hands-on training for nurse anesthesia residents and build upon the previous knowledge and skills obtained. Students will continue developing technical skills for performing a variety of ultrasound-guided procedures and anesthesia techniques. Teaching methods will include demonstration, equipment workshops, reflection/debriefing, and simulation.

NSAN 7655 Clinical Integration for Nurse Anesthesia Practice II 2 Credits
Clinical Integration II is designed to build upon the skills acquired in Clinical Integration I and develop a strong foundation for concurrent and future clinical courses. Nurse anesthesia residents will participate in simulation scenarios across the lifespan and will develop the necessary skills and knowledge to effectively integrate clinical practices, evidence-based research, and critical thinking into their role.

NSAN 7669 Advanced Pathophysiology 4 Credits
The course focuses on the pathophysiological processes central to alterations in physiologic function across the lifespan. Analysis of pathophysiologic responses, implications of genetics and genomics, and laboratory data pertinent to acute and chronic disease across the lifespan using a multi-systems approach addressing the characteristics, impairments, and functions of all organ systems is discussed. Previously NURS 7669.

NSAN 7671 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 7672 Pharmacologic Strategies in Anesthesia Practice 3 Credits
Prerequisite(s): NSAN 7671, NURS 7670.
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 7673 Principles of Nurse Anesthesia Practice I 4 Credits
Corequisite(s): NSAN 7673L.
This course provides an introduction to the basic principles of anesthesia practice and perioperative management of patients across the lifespan. Emphasis is placed on the anesthesia workstation, patient monitoring modalities, procedural positioning, fluid homeostasis, and principles of airway management. Additionally, nurse anesthesia residents will learn necessary preoperative processes including patient evaluation, interpretation of physiologic studies, and informed consent by analyzing current best practices and learning to develop an anesthesia plan of care.

NSAN 7673L Principles of Nurse Anesthesia Practice I Lab 0 Credits
Corequisite(s): NSAN 7673.
This laboratory-based course accompanies NSAN 7673 and is designed to introduce the nurse anesthesia resident to the technical skills and critical thinking necessary for professional anesthesia practice. Hands-on experience with anesthesia workstations, airway apparatus, and patient positioning is provided. In addition, nurse anesthesia residents will learn how to perform comprehensive anesthetic assessments on patients during simulated preoperative evaluations and will interpret findings as it relates to the anesthetic plan of care. Teaching methods include demonstration, equipment workshops, and simulation.

NSAN 7674 Principles of Nurse Anesthesia Practice II 4 Credits
Corequisite(s): NSAN 7674L.
Prerequisite(s): NSAN 7673.
This course provides an in-depth discussion of the anesthetic management of patients undergoing an array of surgical procedures across the perianesthesia continuum. Emphasis is placed on the preoperative assessment, patient preparation, perioperative management and postoperative care of patients undergoing intraabdominal, orthopedic, and thoracic procedures. Students analyze current best practices in the development of the anesthesia plan of care.

NSAN 7674L Principles of Nurse Anesthesia Practice II Lab 0 Credits
Corequisite(s): NSAN 7674.
Prerequisite(s): NSAN 7673L.
This laboratory-based course accompanies NSAN 7674 and is designed to enhance the students' technical skill and critical thinking as it relates to anesthesia practice. Emphasis will be placed on application of didactic knowledge and decision making in simulated scenarios involving anesthetic management of patients during laparoscopic, robotic, bariatric, and gynecological surgeries. In addition, nurse anesthesia residents will practice the skills necessary for management of thoracic procedures in hands-on laboratory sessions. Teaching methods will include demonstration, equipment workshops, reflection/debriefing, and simulation.

NSAN 7677 Principles of Nurse Anesthesia Practice III 4 Credits
Prerequisite(s): NSAN 7674.
This course provides an advanced discussion of anesthetic management for specific patient populations, coexisting disease states, and surgical procedures. Specialty anesthesia practice is emphasized through review of cardiac, vascular, neurological, obstetric, and pediatric procedures and associated comorbidities. Additional focus will be placed on the unique considerations for the anesthetic management of trauma surgeries, non-operating room procedures, and organ transplantation by analyzing current best practices in the development of the specialty anesthesia plan of care.

NSAN 7678 Clinical Correlation Conference 2 Credits
Prerequisite(s): NSAN 7954.
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.

NSAN 7679 Principles of Nurse Anesthesia Practice IV 2 Credits
Prerequisite(s): NSAN 7677.
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 administration of anesthesia in non-operating room locations including endoscopy, interventional cardiology, and interventional radiology. Anesthetic management of anesthesia for plastics, trauma, burns, and organ transplantation will also be presented. Students will analyze current best practices in the development of the anesthetic plan of care.

NSAN 7941 Nurse Anesthesia Residency Correlation I 1 Credit
Corequisite(s): NSAN 7956.
Prerequisite(s): NSAN 7950.
Nurse Anesthesia Residency Correlation I is designed for the novice nurse anesthesia resident to integrate their academic knowledge with the practical application of Nurse Anesthesia Residency I. Through this course, nurse anesthesia residents will prepare for their first Self-Examination Exam provided by the NBCRNA. An introduction to asynchronous board review modules alongside module exams will be completed, as well as a clinical case study (Adult, Geriatric, Regional, Pediatric) to dive deeper into evidence-based knowledge and critical thinking. Activities, such as care plans, notecards, and simulation will be assigned to organize, administer, and manage anesthesia in the general or specialty setting.

NSAN 7942 Nurse Anesthesia Residency Correlation II 1 Credit
Corequisite(s): NSAN 7957.
Prerequisite(s): NSAN 7941.
Nurse Anesthesia Residency Correlation II is designed for the beginning, intermediate nurse anesthesia resident to integrate their academic knowledge with the practical application of Nurse Anesthesia Residency II. Through this course, residents will continue asynchronous board review modules with complementary exams, as well as a clinical case study (Adult, Geriatric, Regional, Pediatric) to dive deeper into evidence-based knowledge and critical thinking. Activities, such as care plans, notecards, and simulation will be assigned to organize, administer, and manage anesthesia in the general or specialty setting.

NSAN 7943 Nurse Anesthesia Residency Correlation III 1 Credit
Corequisite(s): NSAN 7958.
Prerequisite(s): NSAN 7942.
Nurse Anesthesia Residency Correlation III is designed for the intermediate nurse anesthesia resident to integrate their academic knowledge with the practical application of Nurse Anesthesia Residency III. Through this course, residents will continue asynchronous board review modules with complementary exams, as well as a clinical case study (Adult, Geriatric, Regional, Pediatric) to dive deeper into evidence-based knowledge and critical thinking. Activities, such as care plans, notecards, and simulation will be assigned to organize, administer, and manage anesthesia in the general or specialty setting.

NSAN 7944 Nurse Anesthesia Residency Correlation IV 1 Credit
Corequisite(s): NSAN 7959.
Prerequisite(s): NSAN 7943.
Nurse Anesthesia Residency Correlation IV is designed for the advanced nurse anesthesia resident to integrate their academic knowledge with the practical application of Nurse Anesthesia Residency III. Through this course, residents will continue asynchronous board review modules with complementary exams, as well as the final clinical case study (Adult, Geriatric, Regional, Pediatric) for deeper understanding of evidence-based knowledge and critical thinking. Activities, such as care plans, notecards, and simulation will be assigned to organize, administer, and manage anesthesia in the general or specialty setting.

NSAN 7945 Nurse Anesthesia Residency Correlation V 1 Credit
Corequisite(s): NSAN 7960.
Prerequisite(s): NSAN 7944.
Nurse Anesthesia Residency Correlation V is designed for the complex nurse anesthesia resident to integrate their academic knowledge with their independent, practical application of Nurse Anesthesia Residency V. Nurse anesthesia residents must achieve the benchmark score as set by the program on the Self-Examination Exam provided by the NBCRNA prior to successful completion of the course. Board review will culminate in this course with the completion of multiple comprehensive exams. Activities, such as care plans, notecards, and simulation will be assigned to organize, administer, and manage anesthesia in the general or specialty setting.

NSAN 7950 Transition to Nurse Anesthesia Residency 1 Credit
Corequisite(s): NURS 7641.
Prerequisite(s): NSAN 7650.
Transition to Nurse Anesthesia Residency is designed to complement Clinical Integration for Nurse Anesthesia Practice II. This course will provide the hands-on, kinesthetic learning experiences to develop a foundation for all Nurse Anesthesia Residency Courses. Nurse anesthesia residents will begin with some basic shadowing experiences and progress to align with Gray Badge Privileges. Clinical expectations will be provided specific to the program, and residents will be provided information from assigned clinical sites. These clinical experiences will introduce the resident to clinical training in the nurse anesthesia specialty.

NSAN 7956 Nurse Anesthesia Residency I 3 Credits
Prerequisite(s): NSAN 7950.
Nurse Anesthesia Residency 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.

NSAN 7957 Nurse Anesthesia Residency II 3 Credits
Prerequisite(s): NSAN 7956.
This clinical practicum provides experience for the beginning intermediate student practitioner who has demonstrated successful completion of Nurse Anesthesia Residency I. Nurse Anesthesia Residency 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.

NSAN 7958 Nurse Anesthesia Residency III 4 Credits
Prerequisite(s): NSAN 7957.
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 Nurse Anesthesia Residency 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.

NSAN 7959 Nurse Anesthesia Residency IV 4 Credits
Prerequisite(s): NSAN 7958.
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 Nurse Anesthesia Residency 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.

NSAN 7960 Nurse Anesthesia Residency V 4 Credits
Prerequisite(s): NSAN 7959.
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-VE patients. At the completion of Nurse Anesthesia Residency 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.

NSAN 7965 Nurse Anesthesia Certification Board Review 2 Credits
Corequisite(s): NSAN 7960.
Prerequisite(s): NSAN 7959.
This course provides nurse anesthesia residents with a comprehensive review of the knowledge necessary for the national certification exam and subsequent professional nurse anesthesia practice. This review will utilize a combination of self-paced learning modules, completion of board-style practice questions, didactic lectures, and exams. Additionally, nurse anesthesia residents will demonstrate comprehension through case presentations discussing relevant physiology, anesthetic management of patient comorbidities and specialty populations, and current techniques in anesthesia practice. Seminar discussions will provide the opportunity to exchange dialogue on unique clinical experiences and ethical considerations as they apply to specific case management.

Nursing: Midwifery (NSMW)

NSMW 7620 Antepartum Care 3 Credits
This course introduces students to the theory and practice of nurse-midwifery, with an emphasis on antepartum care. Care of the pregnant person, 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 person are examined. Students learn how to perform comprehensive assessments on a pregnant person 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 evidence-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 pregnant persons 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 7622 Primary Care and Gynecologic, Reproductive, and Sexual Health for Nurse Midwifery I 3 Credits
Corequisite(s): NURS 7601, NURS 7608, NURS 7697.
Prerequisite(s): NURS 7604, NURS 7610, NURS 7640, NSMW 7620, NSMW 7951.
This course focuses on the provision of reproductive-based health care to non-pregnant people across the lifespan and on the provision of primary care to both non-pregnant and pregnant people. This course examines current primary care and gynecological 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. Family planning and contraceptive options will be reviewed. Emphasis is on comprehensive assessments and prevention and screening recommendations from evidence-based research. Concepts related to health promotion are provided. In addition to primary care and gynecologic assessments, preconception and postpartum assessments (including breastfeeding) will be explored. The primary care management of selected common health conditions affecting people will be covered. Developmental considerations, vulnerable populations, and cultural needs as they relate to health promotion will be discussed. Additionally, pharmacology specific to gynecologic and primary care issues will be included.

NSMW 7623 Primary Care and Gynecologic, Reproductive, and Sexual Health for Nurse Midwifery II 3 Credits
This course is a continuation of NSMW 7622 and focuses on the provision of reproductive-based health care to non-pregnant people across the lifespan and on the provision of primary care to both the non-pregnant and pregnant person. This course further examines current primary care and gynecological person'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. 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 people in NSMW 7622, this course will explore beyond these concepts, and further examine the abnormal conditions in the primary care and gynecologic setting. Pharmacology specific to primary care, gynecologic, reproductive, and sexual health and abnormal conditions will be covered in depth. Attention will be given to the evaluation and management of common episodic and chronic primary care and gynecologic conditions of people in the healthcare settings. Developmental considerations, vulnerable populations, and cultural needs, as they relate to health promotion will be discussed in depth.

NSMW 7625 Intrapartum Care 3 Credits
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 persons with normal deliveries. Evaluation and immediate care of the newborn is included. Development and evaluation of evidence-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 pregnant persons.

NSMW 7627 Advanced Midwifery Management: At-Risk Childbirth 3 Credits
Building on NSMW 7625 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 pregnant persons 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 will be coordinated throughout the course to simulate actual patient scenarios with a focus on teamwork and communication.

NSMW 7951 Antepartum Clinical 2 Credits
Fee: $400 Midwifery Antepartum Clinical Fee
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 persons. Emphasis is placed on the physical exam of a pregnant person, assessment of fetal well-being, and providing prenatal education. Students use critical thinking and clinical judgment as they relate the provision of care to pregnant persons. 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 7952 Primary Care and Gynecologic, Reproductive, and Sexual Health for Nurse Midwifery Clinical 3 Credits
Fee: $750 Midwifery Primary Care & Gynecologic, Reproductive, and Sexual Health for Nurse Midwifery Clinical Fee
Focus on evidence-based practice approaches to primary care and gynecologic care, specifically, ambulatory management of common, acute, and chronic health conditions of persons 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. Age related, cultural, family, and individual patient variations and vulnerabilities will be incorporated into the review of clinical practice guidelines.

NSMW 7953 Intrapartum Clinical 2 Credits
Fee: $750 Midwifery Intrapartum Clinical Fee
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 person. 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 7625 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 persons 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 low risk pregnant persons.

NSMW 7954 Advanced Midwifery Clinical 2 Credits
Fee: $750 Advanced Midwifery Clinical Fee
Building on the prior clinical course NSMW 7953, 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 pregnant persons with these conditions. Further, common medical, surgical, and obstetric complications are explored in depth. Students evaluate patients and manage common obstetric complications. Skills to prevent and manage common obstetric complications and life threatening problems of the pregnant person 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 will be coordinated throughout the course and clinical seminars to simulate actual patient scenarios with a focus on teamwork and communication.

NSMW 7955 Integration to Nurse-Midwifery Practice 6 Credits
Fee: $1500 Integration to Nurse-Midwifery Practice Fee
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 healthcare 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 births 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 settings. Evaluation and critique of care approaches of persons 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 as they relate to one's wellbeing.

Nutrition (NUTR)

NUTR 7005 Foundations of Nutrition Through the Lifecycle 3 Credits
This course will begin with an introduction to the fundamentals of human nutrition including a broad overview of carbohydrates, lipids, proteins, vitamins and minerals. Analysis and application of the physiological, biological and biochemical basis for differences in nutritional requirements throughout the stages of the lifecycle including pregnancy, infancy, childhood, adolescence, adulthood, and older adulthood will be discussed.

NUTR 7010 Food Science 4 Credits
This course introduces the principles of food science and food safety. Students will understand government and regulatory regulations, and the changes that occur in vitamins, minerals, antioxidants, and other food components during food preparation. The lab portion will teach culinary techniques and introduce a variety of recipes, emphasizing information learned in lecture. Students will learn general principles of choosing, storing, and preparing different categories of food.

NUTR 7015 Nutrition Assessment and Diagnosis 3 Credits
This course provides an introduction to the standardized language for the Nutrition Care Process in various disease states and conditions. It will include interviewing, anthropometrics, laboratory data, nutrition diagnosis, intervention and monitoring and evaluation. It will include an introduction to the nutrition focused physical assessment.

NUTR 7016 Lifecycle Nutrition 3 Credits
An advanced course that addresses the variation in nutritional needs at specific stages of the human life cycle: pregnancy, lactation, infancy, childhood, adolescence, adulthood and elders. The content will address the most common nutritional concerns, their relationship to food choices and health status and strategies to enhance wellbeing at each stage of the lifecycle. Diet modification to meet particular nutritional needs will be covered.

NUTR 7020 Community Nutrition 3 Credits
This course provides a comprehensive review of program planning, policies, resources, and nutrition issues specific to community nutrition. Additionally, the resources available to providing and implementing nutrition programs for various populations and how to assess those interventions will be addressed.

NUTR 7025 Nutritional Biochemistry 3 Credits
This course emphasizes the metabolism and biochemistry of carbohydrates, protein, and fat (energy containing nutrients). The course covers chemical structures, digestion, absorption, distribution, and metabolism of the nutrients, including information on the metabolic pathways.

NUTR 7030 Nutrition Pharmacology 3 Credits
This course focuses on the principles of pharmacology, with a focus on the impact of food and nutrients on the action and effectiveness of medications and complementary and alternative medicine. The course covers basic pharmacology principles, drug classifications, and the role of medications to treat disease and improve quality of life.

NUTR 7035 Advanced Nutrition Counseling 3 Credits
This course provides students with the knowledge and skills needed to communicate with individuals, groups, and the public. Students will practice and evaluate communication skills in counseling individuals.

NUTR 7040 Nutrition Metabolism 3 Credits
This course has the student come to an understanding of the physiological and metabolic processes involved in processing nutrients. This ranges from gaining understanding of the organs involved in digestion, to the biochemical processes that transform nutrients to be utilized by cells. Furthermore the course demonstrates the regulation of nutrient processing and aberrations of the process in metabolic diseases.

NUTR 7045 Food Systems Management 3 Credits
This course will focus on food safety and regulations as well as human resource management, institutional menu development, budgeting, finance, and food service equipment, layout, and design.

NUTR 7050 Medical Nutrition Therapy 3 Credits
This course addresses chronic disease states and the dietary modifications necessary to meet the needs of the body during pathological conditions. Includes oral, as well as other enteral and parenteral feeding routes. Application of the nutrition care process to assess, diagnosis, plan interventions, monitor, and evaluate patient outcomes.

NUTR 7051 Sports Nutrition 3 Credits
The course will provide an overview of sports nutrition basics, nutrition assessment and energy balance in athletes. It will focus on specific evidence-based practices on various sports nutrition topics such as, carbohydrate requirements to fuel sport, ergogenic aids, and hydration. The course will include the sports nutrition needs of various populations, such as children, adolescent athletes, college age athletes, elite and vegetarian athletes.

NUTR 7060 Advanced Clinical Nutrition 3 Credits
This course addresses the dietary modifications necessary to meet the needs of the body during pathological conditions while identifying complex metabolic and physiological interrelationships. In addition, advanced nutritional concepts in healthcare will be addressed. Application of the nutrition care process will be used in assessing, diagnosing, planning interventions, monitoring, and evaluating patient outcomes.

NUTR 7061 Pediatric/Geriatric Nutrition 3 Credits
Students will be introduced to the biological changes of the body during the development and aging process, and nutritional impacts on age-associated diseases. There will be special emphasis on medical nutrition therapy for select pediatric diseases and chronic illnesses and the impact of environment on nutritional intake. Students will understand the dietary practices and nutritional needs specific to pediatric and older individuals, and practice skills needed to develop and lead interventions with both populations. This course is designed to introduce students to the knowledge and skills needed by dietitians to promote successful aging and minimize disease impact in the first and second half of life.

NUTR 7071 Nutrition Leadership and Emerging Topics 3 Credits
This course will focus on principals of organizational management as well as current topics specific to Nutrition and Dietetics.

NUTR 7951 Community Nutrition Practicum 1 Credit
Supervised experiential learning applying knowledge obtained in the Community Nutrition course. Practicum will include a participation in the daily activities in a community setting, acting in a staff relief position in a community nutrition setting, and completing culminating Program Planning and Evaluation Project in a community setting.

NUTR 7952 Food Systems Practicum 2 Credits
Supervised experiential learning applying knowledge obtained in the Food Systems Management course. Practicum will include a culminating project demonstrating planning, marketing, healthy menu development, teaching, budgetary needs, cost control, quality assurance, and evaluation.

NUTR 7953 Nutrition Practicum I 3-4 Credits

NUTR 7954 Nutrition Practicum II 3-4 Credits
This course will prepare students for more advanced clinical scenarios. The course will focus on nutrition support and more complex disease states and critical illness. Supervised experiential learning will primarily encompass critical care where students will work under the supervision of Registered Dietitians providing Medical Nutrition Therapy. In addition to critical care, students will have the option to locate a specialty rotation within their area of interest.

NUTR 7961 DCN Project Seminar I 1 Credit
TDCN Project Seminar I provides the foundation for development of the scholarly DCN Project. This seminar gives students the opportunity to define their proposed DCN project aimed at improving the healthcare delivery system or patient outcomes. This project could be a quality improvement project, a practice change project, a program evaluation, a policy development/improvement project, or another project with a focus on outcomes and practice improvement. Project plans are developed to include the identification of an appropriate practice problem, the patient/system/population outcomes that the project is intended to affect, the proposed project site, and the proposed steps for implementation and outcome assessment. Students will continue to work with their DCN Advisor in developing the project.

NUTR 7962 DCN Project Seminar II 1-2 Credits
DCN Project Seminar II is designed to provide students with the opportunity to synthesize knowledge at the doctoral level. The seminar reflects integration of all coursework and experiential learning in order to demonstrate the students' integration and utilization of evidence-based practice, finance, management, quality improvement, leadership, ethics, and reflective practice in the management of individual patients, populations, and healthcare systems. Students will collect data and/or provide intervention for their doctoral project and develop an abstract and poster for professional presentation.

NUTR 7963 DCN Project Seminar III 2 Credits
Prerequisite(s): NUTR 7962.
DCN Project Seminar III is designed to provide students with the opportunity to finalize and defend their DCN Project in a professional setting. Students will develop a final publication-ready manuscript. In addition, this seminar will prepare students for graduation and the Commission on Dietetic Registration (CDR) credentialing exam through various interactive studying methods and simulation. CNUT students only.

NUTR 7990 Independent Study 1-3 Credits
Through individually designed projects or activities, students work closely with a faculty member to study a specific area in depth. Enrollment by permission only.

Peace and Justice Studies (PJST)

PJST 2400 Community Engagement, Social Justice, and Social Change 3 Credits
Course Tags: Peace and Justice Studies
This course will introduce students to frameworks for responsible and ethical community engagement, including assets-based approaches and strategies for contributing to social justice and social change. Students will challenge and problematize the paradigms of community service, charity, and volunteerism, while exploring participatory and justice-oriented strategies for social change. Students will design a community-engaged project or initiative as a part of the course, with guidance and coaching from their peers and course instructors. Junior standing.

PJST 3980 Internship 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 and governmental organizations in the greater Bridgeport area; some placements include advocacy work in the state legislature 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

PJST 4999 Capstone Research Seminar 3 Credits
This course creates a context for integrating and reflecting on experiences and knowledge acquired in the program by providing 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 (PHIL)

PHIL 1101 Introduction to Philosophy 3 Credits
Course Tags: Educational Studies Cognate
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.

PHIL 2200 Ancient Philosophy 3 Credits
Prerequisite(s): PHIL 1101.
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?

PHIL 2201 Medieval and Renaissance Philosophy 3 Credits
Prerequisite(s): PHIL 1101.
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.

PHIL 2202 Modern Philosophy 3 Credits
Prerequisite(s): PHIL 1101.
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.

PHIL 2204 20th Century Philosophy 3 Credits
Prerequisite(s): PHIL 1101.
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.

PHIL 2205 Ancient Medicine & Philosophy 3 Credits
Course Tags: Health Studies: Traditions, Delivery, and Ethics
Prerequisite(s): PHIL 1101.
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.

PHIL 2206 Philosophical Perspectives on Women in Classical Literature 3 Credits
Course Tags: Women, Gender, and Sexuality Studies: Gender Focused
Prerequisite(s): PHIL 1101.
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.

PHIL 2209 Existentialism 3 Credits
Course Tags: French Course Taught in English
Prerequisite(s): PHIL 1101.
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."

PHIL 2210 Phenomenology 3 Credits
Course Tags: Catholic Studies: Non-Religious Studies
Prerequisite(s): PHIL 1101.
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?

PHIL 2211 The American Philosophical Experience: Struggle, Evasion, and Love in 'Pragmatic America' 3 Credits
Course Tags: American Studies: History, American Studies: Philosophy
Prerequisite(s): PHIL 1101.
American Philosophy is often understood as a mere extension of strands of European philosophical thought, a derivative tradition shaped by the intellectual currents of the so-called Old World. This course challenges that assumption, offering a philosophical history that foregrounds the struggles and transformations that have defined philosophical inquiry in America. From the earliest encounters between Indigenous peoples and European settlers to the ongoing legacies of slavery and emancipation, American philosophy emerges not as a continuation of European traditions but as a response to and reckoning with these defining struggles.

PHIL 2215 Philosophy of Science 3 Credits
Prerequisite(s): PHIL 1101.
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.

PHIL 2216 Philosophy and Biology of Evolutionary Theory 3 Credits
Prerequisite(s): PHIL 1101.
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. Crosslisted with BIOL 1095.

PHIL 2217 Logic 3 Credits
Prerequisite(s): PHIL 1101.
This course provides a basic acquaintance with prevailing systems and methods of logic, notably traditional (Aristotelian) and modern (standard mathematical) logics.

PHIL 2218 Philosophy and Biochemistry of Food and Eating Practices 3 Credits
Prerequisite(s): PHIL 1101.
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. Crosslisted with CHEM 1072.

PHIL 2220 Philosophy of Religion 3 Credits
Course Tags: Catholic Studies: Non-Religious Studies
Prerequisite(s): PHIL 1101.
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.

PHIL 2221 The Question of Theology 3 Credits
Course Tags: Catholic Studies: Non-Religious Studies
Prerequisite(s): PHIL 1101.
19th- 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.

PHIL 2222 Evil 3 Credits
Prerequisite(s): PHIL 1101.
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 their understanding of the human being, of God, and of religion? What is our responsibility in the face of evil?

PHIL 2223 The Problem of God 3 Credits
Course Tags: Catholic Studies: Non-Religious Studies
Prerequisite(s): PHIL 1101.
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.

PHIL 2224 Critical Thinking 3 Credits
Course Tags: Educational Studies Cognate
Prerequisite(s): PHIL 1101.
This course is designed to help students use the fundamentals of logic and rational discourse to sharpen and focus their argumentative abilities, to better evaluate claims for both soundness and validity, to identify bias and rhetorical devices, and to become more responsible social and political agents through enhanced analytic thinking.

PHIL 2230 Philosophy of Self and Subjectivity 3 Credits
Prerequisite(s): PHIL 1101.
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.

PHIL 2240 Introduction to Asian Philosophies 3 Credits
Course Tags: Asian Studies Elective, International Studies Elective
Prerequisite(s): PHIL 1101.
This course provides a philosophical overview of the major philosophical traditions that originate in Indian 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.

PHIL 2241 Confucianism 3 Credits
Course Tags: Asian Studies Elective, International Studies Elective
Prerequisite(s): PHIL 1101.
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.

PHIL 2242 Yoga: Philosophy and Practice 3 Credits
Course Tags: Asian Studies Elective
This course engages in careful, critical and caring inquiry regarding yogic perspectives on the mind, body, consciousness, happiness, individual/social well-being, and human flourishing. It aims to do so by introducing students to the philosophical study of yoga through responsible engagement with its theoretical principles, its embodied practices, and the questions that the globalization of yoga raises for its development in the future. The course will explore these questions in an experiential, comparative, and interdisciplinary way.

PHIL 2245 Death, Dying, and the Meaning of Life 3 Credits
Prerequisite(s):PHIL 1101.
One thing is for certain: we will all at some point die. How are we to live our lives in light of this fact? Does death rob our lives of meaning, or might it actually provide meaning to our lives? How do advances in end of life care affect our view of both death and life? How might our examination of these questions illuminate broader ethical and policy issues? This course will explore these and other related questions.

PHIL 2250 Ethical Theory 3 Credits
Course Tags: Educational Studies Cognate
Prerequisite(s): PHIL 1101.
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.

PHIL 2251 Ethical Theories in America 3 Credits
Course Tags: American Studies Upper Level, American Studies: Philosophy
Prerequisite(s): PHIL 1101.
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.

PHIL 2252 Philosophy as a Way of Life 3 Credits
Prerequisite(s): PHIL 1101.
This course examines the idea that philosophy should guide us in living good lives, a prominent view among ancient Greek and Roman philosophers. The course covers the question of what it is to live well or flourish as a human being, as well as spiritual exercises that are meant to assist one in living well or flourishing, including practices of meditation, writing, and manual labor. Our goal is not only to understand the competing positions of these authors, but also to determine whether philosophy as a way of life might have a role to play in the contemporary world.

PHIL 2255 Leadership Ethics Seminar 3 Credits
Prerequisite(s): Two 2000- or 3000-level philosophy courses, junior standing.
What does it mean to be a "real" leader? How are we to understand the relationship between leadership and the common good? What might inspire ethical leadership in the world today? The goal of this seminar is to synthesize and build upon your work in leadership ethics. To this end, students will be invited to explore and articulate your own philosophical responses to the following difficult questions: What makes a leader credible? What does it mean to influence another responsibly? What is power? How might leaders work for justice? To help in this endeavor, students will read some of the ways that philosophers have wrestled with these questions. Readings will challenge us to think critically about our own assumptions regarding the nature and importance of leadership. This critical process will encourage students to determine the qualities they hope to embody as a leader in the future.

PHIL 2256 The Ethical Dimension of Engineering & Computing: The Social Responsibilities of Engineers 3 Credits
Prerequisite(s): PHIL 1101.
Engineering is not only a technical profession — it is also a deeply ethical one. Every design choice, safety measure, and project decision carries implications that affect individuals, communities, and ecosystems. This course offers an introduction to the ethical dimension of engineering and computing practices, emphasizing the responsibility engineers bear in shaping the world. We will explore major ethical theories, the principles embedded in professional codes of conduct, and structured frameworks for making moral decisions under uncertainty. Students will engage with real-world case studies, participate in role-based simulations, and develop their ability to navigate complex ethical challenges in engineering.

PHIL 2260 Social and Political Philosophy 3 Credits
Course Tags: Diversity, Equality, and Inclusion Minor Elective, Educational Studies Cognate, Peace and Justice Studies
Prerequisite(s): PHIL 1101.
This course analyzes the writings of leading social and political thinkers, with special consideration of the movements of protest and dissent.

PHIL 2263 The Concept of Human Rights 3 Credits
Course Tags: Diversity, Equality, and Inclusion Minor Elective, Educational Studies Cognate, International Studies Elective, Peace and Justice Studies
Prerequisite(s): PHIL 1101.
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.

PHIL 2264 Philosophy of Law 3 Credits
Course Tags: Public Administration Criminal Justice
Prerequisite(s): PHIL 1101.
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.

PHIL 2265 Philosophy and Economic Anthropology 3 Credits
Course Tags: Diversity, Equality, and Inclusion Minor Elective, International Studies Elective, Philosophy Major: Major Philosopher
Prerequisite(s): PHIL 1101.
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.

PHIL 2266 Philosophy, Catholic Social Teaching and the Economy 4 Credits
Course Tags: Magis Core: Social Justice II, Magis Core: Writing Across Curriculum
Prerequisite(s): PHIL 1101.
This course will read the work of 20th-century German and French thinkers alongside Catholic social teaching. This reading will provide the resources to call into question the paradigm of neoclassical economic theory (coupled with the ascendency of neoliberalism), and to open up the possibility of a different future, one that is driven by convictions about how a human being and a human community can flourish.

PHIL 2267 (De)Colonizing the Human 3 Credits
Course Tags: Black Studies Focus Course, Diversity, Equality, and Inclusion Minor Elective, Peace and Justice Studies
Prerequisite(s): PHIL 1101.
This course approaches the problem of colonialism and coloniality, as well as the task of decolonization from a philosophical perspective. As such, attention will be paid to generating the problem space and question sets needed to de-naturalize the everyday colonial structures that shape our human condition.

PHIL 2268 Critical Race Theory 3 Credits
Course Tags: Black Studies Focus Course, Diversity, Equality, and Inclusion Minor Elective, Peace and Justice Studies
Prerequisite(s): Two courses in philosophy.
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). Previously PHIL 3360.

PHIL 2269 Contemporary Black Feminism 4 Credits
Course Tags: Diversity, Equality, and Inclusion Minor Elective, Peace and Justice Studies, Women, Gender, and Sexuality Studies: Gender Focused
Prerequisite(s): PHIL 1101.
This course will serve as an introduction to Contemporary Black Feminisms. Readings will provide occasion to discuss the history of black feminism, black feminist epistemologies and praxis, and black feminist theory. We will consider the reception of these concepts in the U.S., exploring especially race but also gender as central to the development of and resistance to western forms of thought.

PHIL 2270 Aesthetics 3 Credits
Prerequisite(s): PHIL 1101.
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.

PHIL 2272 Philosophy of Film 3 Credits
Prerequisite(s): PHIL 1101.
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.

PHIL 2276 Criminal Law and Philosophy 4 Credits
Prerequisite(s): PHIL 1101.
This course provides an introduction to the principles, concepts, and structures of criminal law. Students will explore philosophical questions about the nature of criminal responsibility, key elements of criminal offenses and defenses, and selected social and ethical issues concerning the criminal justice system.

PHIL 2281 Philosophies of Love and Sex 3 Credits
Course Tags: Women, Gender, and Sexuality Studies: Gender Focused
Prerequisite(s): PHIL 1101.
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.

PHIL 2282 Violence and the Sacred 3 Credits
Course Tags: Catholic Studies: Non-Religious Studies, Peace and Justice Studies, Women, Gender, and Sexuality Studies: Gender Focused
Prerequisite(s): PHIL 1101.
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.

PHIL 2283 Philosophy and Pornography 3 Credits
Course Tags: Women, Gender, and Sexuality Studies: Gender Focused
Prerequisite(s): PHIL 1101.
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.

PHIL 2284 The Sexual Life 3 Credits
Course Tags: Women, Gender, and Sexuality Studies: Gender Focused
Sex is one of the most significant forces at work in the world today. However, people rarely get together to openly and critically question what we think about sex and how our thinking influences the ways we understand our selves and each other.

PHIL 2285 Women and Horror 3 Credits
Course Tags: Women, Gender, and Sexuality Studies: Gender Component, Women, Gender, and Sexuality Studies: Gender Focused
This course takes up the complicated genre of horror in light of the feminist tradition of philosophy. It can in many cases reinforce problematic gender stereotypes, but it can also provoke a rethinking of the myths and assumptions about women's experiences today. This course is both an exercise in philosophical questioning as well as a study of the horror genre.

PHIL 2900 Special Topics (Shell) 3 Credits
Prerequisite(s): PHIL 1101.
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.

PHIL 3300 Plato 3 Credits
Prerequisite(s): 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.

PHIL 3301 Aristotle 3 Credits
Prerequisite(s): 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.

PHIL 3304 Aquinas 3 Credits
Course Tags: Catholic Studies: Non-Religious Studies, Italian Studies: Italy-Focused
Prerequisite(s): 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.

PHIL 3307 Descartes 3 Credits
Course Tags: French Course Taught in English
Prerequisite(s): 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.

PHIL 3310 Hume 3 Credits
Prerequisite(s): 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.

PHIL 3311 Kant 3 Credits
Course Tags: German Course Taught in English
Prerequisite(s): 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.

PHIL 3314 Nietzsche 3 Credits
Prerequisite(s): 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.

PHIL 3317 Heidegger 3 Credits
Course Tags: German Course Taught in English
This course will explore the work of Martin Heidegger (1889-1976), one of the most influential philosophers of the twentieth century. The course will take the form of a close reading of Being and Time (1927) and "What is Metaphysics?" (1929). The hinge around which the course will turn is Heidegger's existential analysis of death. The course will also examine a variety of responses to the work of Heidegger. Merleau-Ponty, Phenomenology of Perception ; Jonas, "Evolution and Freedom"; Levinas, Time and the Othe r; Blanchot, The Space of Literature ; and Derrida, Aporias .

PHIL 3321 Knowledge 3 Credits
Prerequisite(s): 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?

PHIL 3323 Philosophy of Mind 3 Credits
Prerequisite(s): Two 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!

PHIL 3331 Philosophy of Language 3 Credits
Prerequisite(s): 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.

PHIL 3340 Critical Theory 3 Credits
Prerequisite(s): Two courses in philosophy.
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.

PHIL 3350 Advanced Topics in Ethics 3 Credits
Prerequisite(s): Two courses in philosophy.
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.

PHIL 3990 Independent Study 1-3 Credits
Prerequisite(s): 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.

PHIL 4999 Capstone Experience in Philosophy 3 Credits
Prerequisite(s): Two courses in philosophy.
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. Open to philosophy majors and minors only.

Physics (PHYS)

PHYS 1010 Quantum Computing Demystified –Technology, Applications, Business 3 Credits
Course Tags: Educational Studies Cognate, International Studies Elective
Designed for the non-science majors, this course provides a comprehensive introduction to all aspects of Quantum Computing, a field that promises critical new capabilities in developing unique advances in therapeutic treatments, predicting the weather, secure communications, and many other applications. The course includes 3 major sections: (1) history, concepts, and applications (2) the different types of quantum computers, their hardware, and "modalities" of implementation, (3) how a quantum computing performs its operations, using simple mathematics (simple basic algebra and trigonometry – with remedial coverage included in the course), with the opportunity to run a simple program on the IBM Quantum Platform. No prior knowledge of quantum mechanics is needed. Guest lectures from researchers in the field are planned, with a focus on explaining their research in terms understandable by the general public.

PHYS 1071 Physics of Light, Color, and Vision 3 Credits
Course Tags: Educational Studies Cognate, Magis Core: Interdisciplinary
This course explores the principles of light and its interaction with matter, focusing on the physics underlying color perception and its applications in art and technology. The course examines topics such as the nature of light as electromagnetic waves, optics, and the electromagnetic spectrum. Students will analyze the formation of colors in natural phenomena, materials, and artistic contexts, such as painting, photography, and digital media. Students will also learn how light theories evolved. Activities and demonstrations will provide opportunities to investigate light and color phenomena (e.g., illusions, diffraction), enhancing our understanding and appreciation of the visual and artistic world.

PHYS 1076 Physics of Sound and Music 3 Credits
Course Tags: Educational Studies Cognate, Magis Core: Interdisciplinary
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.

PHYS 1077 Science and Technology for Future Presidents 3 Credits
Course Tags: Educational Studies Cognate, Magis Core: Social Justice I
This interdisciplinary exploration provides introductory knowledge of the physics of sound waves and the combination of waves in music. This foundation expands into an exploration the elements of musical theory and composition, including studying the brain's perception of sound and the physiological response to music. Students will continue to study acoustics, sound engineering, and musical instrument design, including the use of specific materials, structures, and electronic components for the enhancement of sound. While this class does contain mathematical elements, class time will prioritize interactive, project-based activities that demonstrate how the physical concepts are linked to the other studied disciplines.

PHYS 1078 Nature of the Universe 3 Credits
Course Tags: Magis Core: Interdisciplinary
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.

PHYS 1087 Fundamentals of Astronomy 3 Credits
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.

PHYS 1089 Physics of Sport 3 Credits
Course Tags: Educational Studies Cognate, Magis Core: Interdisciplinary, Sports Media Elective
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.

PHYS 1090 Physics of the Atmosphere, Ocean, and Climate 3 Credits
Course Tags: Educational Studies Cognate, Environmental Studies Elective, Environmental Studies Major Elective, Environmental Studies: Natural Science, Magis Core: Interdisciplinary
This introductory course presents the physical processes that lead to the atmospheric, oceanic, and climate phenomena we experience in our everyday lives. During the first half of the semester, students will learn how simple physics can explain the current state of the atmosphere, ocean, and climate, and during the second half of the semester, students will learn how the atmosphere, ocean, and climate undergo changes due to both Earth's natural variations and human impacts. A full-day field trip, table-top experiments, and climate models will be used to illustrate concepts from class. Only a knowledge of algebra will be assumed.

PHYS 1093 Energy and Environment 3 Credits
Course Tags: Educational Studies Cognate, Environmental Studies Elective, Environmental Studies Major Elective, Environmental Studies: Natural Science, Magis Core: Interdisciplinary
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 will use arithmetic and simple algebra.

PHYS 1145 General Physics for Life Sciences I 3 Credits
Corequisite(s): PHYS 1145L.
Designed for students in the health sciences, this algebra-based introductory physics course covers classical mechanics of rigid bodies and fluids. Topics covered include Newton's laws of motion, the conservation of energy and momentum, simple harmonic motion, basic wave properties, and static and dynamic fluids. This course stresses conceptual understanding and problem-solving skills for health science students.

PHYS 1145L General Physics for Life Sciences I Lab 1 Credit
Fee: $130 Physics Lab Fee
Corequisite(s): PHYS 1145.
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 PHYS 1145. Specific experimental measurements include accelerated motion, periodic motion, gravitational force, ballistics, conservation of energy, fluids, and ideal gas law. This course trains students in experimental measurements, data analysis, error analysis, deductive thinking, and instrumentation.

PHYS 1146 General Physics for Life Sciences II 3 Credits
Corequisite(s): PHYS 1146L.
Prerequisite(s): PHYS 1145.
A continuation of PHYS 1145, this course covers the basic concepts of electric forces and fields, potentials, magnetic forces and fields, induction, DC circuits, and optics. This course stresses conceptual understanding and problem-solving skills for health science students.

PHYS 1146L General Physics for Life Sciences II Lab 1 Credit
Fee: $130 Physics Lab Fee
Corequisite(s): PHYS 1146.
This laboratory provides students with a greater understanding of electromagnetic phenomena, wave phenomena, and optics, and supports PHYS 1146. 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 analysis, error analysis, deductive thinking, and instrumentation.

PHYS 1171 General Physics I 3 Credits
Corequisite(s): PHYS 1171L.
Prerequisite(s): MATH 1141 or MATH 1171 (concurrency allowed).
This is a calculus-based introductory physics course for physics, mathematics, chemistry, and engineering majors. In it, students will cover the foundations of classical mechanics, including linear and vector motion, Newtonian mechanics, energy, momentum, rotational motion, static equilibrium, and waves. Note: Biology majors should take PHYS 1145.

PHYS 1171L General Physics I Lab 1 Credit
Fee: $130 Physics Lab Fee
Corequisite(s): PHYS 1171.
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 PHYS 1171. Specific experimental measurements include accelerated motion, periodic motion, gravitational force, ballistics, conservation of energy, fluids, and rotational dynamics. This course trains students in experimental measurements, data analysis, error analysis, deductive thinking, and instrumentation.

PHYS 1172 General Physics II 3 Credits
Corequisite(s): PHYS 1172L.
Prerequisite(s): MATH 1142 or MATH 1172 (concurrency allowed); PHYS 1171.
This course is a continuation of PHYS 1171 and covers electricity and magnetism, light, and optics. Topics covered include electric fields and their sources, magnetic fields and their sources, simple electric circuits, wave motion, reflection and refraction of light, and geometrical optics. Note: Biology majors should take PHYS 1146.

PHYS 1172L General Physics II Lab 1 Credit
Fee: $130 Physics Lab Fee
Corequisite(s): PHYS 1172.
This laboratory provides students with a greater understanding of electromagnetic phenomena, wave phenomena, and optics, and supports PHYS 1172. 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 analysis, error analysis, deductive thinking, and instrumentation.

PHYS 2212 Circuit Analysis and Analog Systems 3 Credits
Corequisite(s): PHYS 2212L.
Prerequisite(s): PHYS 1172.
This course introduces students to the theory and practice of basic electronics and linear/analog circuitry. Topics include Kirchhoff's laws and applications; resistor circuits; concepts of capacitive and inductive reactance; impedance calculation using vector and complex notation; DC, AC, and transient circuit behavior; operation of basic solid state devices (diodes, junction transistors, FETs, SCRs); operational amplifiers; active and passive filters; feedback techniques; and frequency dependent effects. The basic laws and theorems of circuit analysis are introduced.

PHYS 2212L Circuit Analysis and Analog Systems Lab 1 Credit
Fee: $130 Physics Lab Fee
Corequisite(s): PHYS 2212.
Students learn the use of basic laboratory test equipment such as the digital volt-ohm-amp meter, function generator, oscilloscope, and frequency counter. Bread boarding techniques are utilized to assemble and test various linear/analog circuits. Simulation software is introduced.

PHYS 2255 Introduction to Astrophysics 3 Credits
Prerequisite(s): PHYS 2285.
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.

PHYS 2260 Introduction to Biomedical Optics 3 Credits
Prerequisite(s): MATH 2251 (concurrency allowed); PHYS 1172.
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.

PHYS 2265 Introduction to Geophysical Fluid Dynamics 3 Credits
Course Tags: Magis Core: Interdisciplinary
Prerequisite(s): PHYS 1172.
This course presents the field of geophysical fluid dynamics. After an overview of Earth's energy balance, students will spend the first half of the semester learning dynamics and consider how Earth's rotation alters large-scale flows in the ocean and atmosphere. After a study of the circulation of the ocean and the atmosphere, students will learn how the ocean and atmosphere couple to create the climate system, including the current climate system as well as natural and anthropogenic variations in the climate system. Students will gain experience in creating computational models of the ocean, atmosphere, and climate.

PHYS 2285 Modern Physics 3 Credits
Prerequisite(s): PHYS 1172.
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.

PHYS 2285L Modern Experimental Methods Lab 2 Credits
Fee: $130 Physics Lab Fee
Prerequisite(s): PHYS 2285.
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.

PHYS 2286 Modern Physics II: Applications of Quanta and Relativity 3 Credits
Prerequisite(s): PHYS 2285.
This course applies the theory and phenomenology studied in Modern Physics (Quanta and Relativity) to a wide variety of phenomena and applications. The quantum and relativistic realm will be used to clarify topics in the structure of matter and energy from the smallest to the largest times and scales of the universe. Topics include moving from classical physics to quantum statistics, and basic structural, thermal, electronic, magnetic, and energy properties of matter up to relativistic limits. Applied topics include lasers, superconductivity, semiconductor devices, quantum optics, nanomaterials, nuclear power, applied sciences, and engineering.

PHYS 2290 Spacetime and General Relativity 3 Credits
Prerequisite(s): PHYS 2285.
The bulk of this course is dedicated to humanity's most successful theory of gravity to date: Einstein's general relativity. Topics covered will include special relativity, black holes, gravitational waves, and cosmology. Mathematical tools required in the study of spacetimes, such as tensor analysis and differential geometry, will be introduced to the students throughout the course.

PHYS 3215 Computational Physics 3 Credits
Prerequisite(s): PHYS 2285.
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.

PHYS 3222 Modern Optics 3 Credits
Prerequisite(s): PHYS 2285.
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.

PHYS 3222L Modern Optics Lab 1 Credit
Fee: $130 Physics Lab Fee
Corequisite(s): PHYS 3222.
In this lab course, student experiments include measurement of the photoelectric effect, electro-optic phenomena, diffraction phenomena, spectroscopy, interferometry, interference effects, and optical heterodyning. Students may (and are encouraged to) develop relevant experiments. The course requires comprehensive lab reports.

PHYS 3226 Classical Mechanics 3 Credits
Prerequisite(s): PHYS 1172.
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. Previously PHYS 2226.

PHYS 3241 Thermal and Statistical Physics 3 Credits
Prerequisite(s): PHYS 2285.
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.

PHYS 3271 Electricity and Magnetism 3 Credits
Prerequisite(s): MATH 2251, PHYS 1172.
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.

PHYS 3324 Mathematical Methods of Physics 3 Credits
Prerequisite(s): PHYS 1172.
This course provides a foundation in mathematical methods required for pursuing advanced physics courses. Two areas of focus of the course are developing a geometric perspective, and symbolic computation with Mathematica. Students apply methods often used in physics, including power series, complex functions, linear algebra, and vector analysis. Students will solve example physics equations such as heat flow, and the wave equation using curvilinear coordinates, Fourier series, Fourier transforms, Bessel functions and Legendre polynomials, and complex analysis.

PHYS 3385L Advanced Lab in Physics 3 Credits
Fee: $130 Physics Lab Fee
Prerequisite(s): PHYS 2285 and PHYS 2285L.
This is an advanced laboratory class that builds on the skills learned in PHYS 2285L (Modern Lab). Whereas Modern Lab emphasized working with common experimental equipment, Advanced Lab emphasizes data collection and analysis techniques, as well as introducing you to more specialized experimental equipment. Students are also be expected to take more responsibility for the planning and execution of their experiments than in previous classes.

PHYS 3386 Quantum Physics 3 Credits
Prerequisite(s): MATH 3332 or PHYS 3324.
This course introduces students to the physical concepts and mathematical formulations of non-relativistic quantum mechanics. Topics include the Schrodinger wave equation, Fourier techniques and expectation values, operator formalism, angular momentum, central forces, matrix representations, and approximation methods.

PHYS 3387 Introduction to Solid State Physics 3 Credits
Prerequisite(s): PHYS 2285.
This course covers the principles underlying the structure and functionalities of solids such as metals and semiconductors which are at the core of modern technologies. The students will get exposed to practical aspects which will prepare them for their future careers either in research or industrial settings. It is an upper division course for physics majors and minors. The lectures discuss the structure of solids, the forces that bind the atoms to form crystals, and then their electronic properties, a fundamental aspect that enables electrical and magnetic behavior. Recent developments in the field are discussed towards the end.

PHYS 3388 Elementary Particles and Nuclear Physics 3 Credits
Prerequisite(s): PHYS 3386.
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.

PHYS 4900 Special Topics (Shell) 3 Credits
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.

PHYS 4971 Physics Research I 0-4 Credits
This course requires theoretical, experimental, and/or computational research with a faculty member. All students interested in conducting research should obtain the consent of the professor supervising their research prior to registering for this course.

PHYS 4972 Physics Research II 0-4 Credits
This course requires theoretical, experimental, and/or computational research with a faculty member. All students interested in conducting research should obtain the consent of the professor supervising their research prior to registering for this course.

PHYS 4973 Physics Research III 0-4 Credits
This course requires theoretical, experimental, and/or computational research with a faculty member. All students interested in conducting research should obtain the consent of the professor supervising their research prior to registering for this course.

PHYS 4974 Physics Research IV 0-4 Credits
This course requires theoretical, experimental, and/or computational research with a faculty member. All students interested in conducting research should obtain the consent of the professor supervising their research prior to registering for this course.

PHYS 4975 Physics Research V 0-4 Credits
This course requires theoretical, experimental, and/or computational research with a faculty member. All students interested in conducting research should obtain the consent of the professor supervising their research prior to registering for this course.

PHYS 4976 Physics Research VI 0-4 Credits
This course requires theoretical, experimental, and/or computational research with a faculty member. All students interested in conducting research should obtain the consent of the professor supervising their research prior to registering for this course.

PHYS 4990 Independent Study 1-2 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.

PHYS 4998 Theoretical/Experimental Capstone 1 Credit
Course Tags: Magis Core: Writing in the Discipline
Prerequisite(s): Senior standing.
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.

PHYS 4999 Theoretical/Experimental Capstone 3 Credits
Course Tags: Magis Core: Writing in the Discipline
Prerequisite(s): Senior standing.
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.

Politics (POLI)

POLI 1101 Introduction to American Politics 3 Credits
Course Tags: American Studies: Gateway, American Studies: Politics, Educational Studies Cognate, Politics Major: American Politics
Students examine the American political system: the design and operation of Congress, the Presidency, and the Supreme Court; American political culture; elections; the ability of the political system to deal with societal problems, and proposals for reform of the political system.

POLI 1102 Introduction to Comparative Politics 3 Credits
Course Tags: International Studies Elective, Politics Major: Comparative Politics
This course introduces students to the exciting facts, concepts, and theories necessary to understand the structures and processes of diverse political systems that exist around the world. Comparing similarities and differences among the different political systems in prominent countries provides insights into current events and enabled students to address important questions about politics in specific countries and regions.

POLI 1103 Introduction to Political Ideas That Shape the World 3 Credits
Course Tags: Politics Major: Political Theory
If politics is the study of “who gets what, when, and how,” then political theory is the study of “what” politics means, and “why” it matters. This class explores the big questions: the meanings of justice, equality, identity, freedom, and power. It introduces students to canonical and lesser studied works, exploring what it means to exist in political community. Over the semester, students will develop expertise in both the subject and methods of political theory. Students will apply those wide-ranging views to navigate the uncertainty of contemporary politics and imagine alternative futures for themselves and others.

POLI 1104 Introduction to International Relations 3 Credits
Course Tags: Humanitarian Action Minor Context Course, Peace and Justice Studies, Politics Major: International Relations
This course introduces International Relations 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.

POLI 2102 City Politics 3 Credits
Course Tags: American Studies Theme Course, American Studies: Politics, Politics Major: American Politics, Public Administration City Government
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.

POLI 2103 Public Administration 3 Credits
Course Tags: American Studies Theme Course, American Studies: Politics, Politics Major: American Politics
Public administration is central to American government. It decides who gets what, when, and how at the local level. This course uses case studies, theoretical analyses, and skill-development activities to examines the practice and power of U.S. public administrators and the factors that impact their jobs and the effectiveness of their decisions. This course explores core public administration concepts, bureaucratic politics, organizational behavior, decision-making strategies, public management, and social issues; builds student knowledge and professional skills; and highlights the political, practical and managerial factors that affect public administration.

POLI 2104 American Presidency 3 Credits
Course Tags: American Studies Upper Level, American Studies: Gateway, American Studies: Politics, Politics Major: American Politics
This course examines President's role as chief executive, legislative leader, and administrative head of state, as well the expansion of presidential powers by 20th and 21st century presidents. It also explores differences and patterns among presidents in their domestic and foreign policy, explanations for these patterns and why some Presidents found more success, changes in Presidential primaries, nominating, conventions, and national elections, and how issues such as psychology, economic forces, political parties, "political time," and media impact the Presidency.

POLI 2105 The American Congress 3 Credits
Course Tags: American Studies Upper Level, American Studies: Politics, Politics Major: American Politics
This course examines the structure, rules, and procedures of Congress: the foremost national institution of political representation in American democracy. The course also explores the place of Congress place in contemporary American politics; its often-contentious relationship with the other parts of the national government, including the Presidency and Courts; and key theoretical approaches to the study of Congress as a deliberative body designed to produce national policy outcomes. Finally, the course 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.

POLI 2106 Supreme Court I 3 Credits
Course Tags: American Studies Upper Level, American Studies: Politics, Politics Major: American Politics
This course examines the composition and operation of the Supreme Court, including how it reaches decisions. It also examines the relationship between the Court and the remainder of the political system; the political consequences of Court decisions; nomination and confirmation issues; and the Court's treatment of government power including Presidential authority, the commerce clause, taxing power, and relations between the branches.

POLI 2107 Supreme Court II 3 Credits
Course Tags: American Studies Upper Level, Politics Major: American Politics
This course focuses on how the Constitution and the Supreme Court address issues related to individual freedoms. It examines 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.

POLI 2108 Political Parties and Interest Groups 3 Credits
Course Tags: American Studies Upper Level, American Studies: Politics, Black Studies Component Course, Politics Major: American Politics
This course examines political parties, interest groups, and public opinion in terms of their impact on American politics, including who gets elected, what issues receive attention in Congress, and the content of legislation. The course considers: How responsive are decision makers in the American system to citizens' demands? What factors impact this responsiveness? What mechanisms do citizens have to express support for their policy preferences? What mechanisms exist that increase the chances of their policy preferences being enacted?

POLI 2109 American Public Policy 3 Credits
Course Tags: American Studies Upper Level, American Studies: Politics, Politics Major: American Politics, Public Administration City Government
Public policy results from complex interactions between political actors, elected officials, bureaucrats, interest groups, political activists, corporations, citizens, the media, and governing structures and rules. The policy making process is the lifeblood of the American political system. This course explores current policy debates, key models and theories that seek to explain public policy, and the significant role politics plays in the policy making process. Students will learn how public policies are formulated, understand current tools and techniques used in making policy, and gain the ability to assess policy options.

POLI 2111 Media and Politics 3 Credits
Course Tags: American Studies: Politics, Politics Major: American Politics, Sports Media Elective
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.

POLI 2112 United States Environmental Politics and Policy 3 Credits
Course Tags: American Studies Upper Level, Environmental Studies Elective, Environmental Studies Major Elective, Environmental Studies: Social Science, Politics Major: American Politics, Public Administration Environment Policy
This course examines the creation, content, and implementation of U.S. environmental policy. The first section examines the history of U.S. environmental politics, the policy process, and prominent theories that seek to explain that process. The second examines the role and occasional preferences of key institutions, including the President, Congress, courts, federal agencies, environmental groups, and corporations. The third section examines key current issues, including, air and water pollution, toxic chemicals, public lands, endangered species, climate change, risk assessments, and the use of economic tools to effect change.

POLI 2113 State and Local Government 3 Credits
Course Tags: Politics Major: American Politics
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.

POLI 2114 Public Opinion and Polling 3 Credits
Course Tags: Politics Major: American Politics
A central feature to American democracy is that the public has the opportunity to 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, public's 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.

POLI 2115 Campaigns and Elections 3 Credits
Course Tags: Politics Major: American Politics
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. The class focuses on American elections: discussing how various actors seek to influence outcomes, the behavior of voters, the politics of election administration, and the laws that govern the rules to the game. Students will observe and analyze actual election activity as well as leading empirical research that seeks to shed light on this significant aspect of American democracy.

POLI 2120 Politics of Care 3 Credits
Course Tags: American Studies: Gateway, Health Studies: Social Science, Peace and Justice Studies, Politics Major: American Politics
Many current social crises have roots that stretch back decades, to the practice and normalization of American politics as divisive, polarized, transactional, and winner-take-all. This course explores an alternative view: the notion of "caring" in systematic political ethics, political practice, and policy. We address the relationship between care and democracy, community, justice, and the formulation of healthcare, immigration, social welfare, and economic policy. The course will help prepare students to be open-minded, ethical leaders, elective communicators, and caring professionals in diverse career settings including education, healthcare, public policy, business, law, humanitarian action, and criminal justice.

POLI 2121 Women in Politics 3 Credits
Course Tags: Politics Major: American Politics
This course examines the role that women play in American politics. Students will examine prominent explanations for gender inequality, in general and within politics, and efforts to alter the role of women in politics. These discussions will provide the backdrop for studying the impact of gender on political behavior, seeking and holding office. Students will also analyze selected public policy issues on gender.

POLI 2122 Comparative Political Institutions 3 Credits
Course Tags: Politics Major: Comparative Politics
The course introduces students to the comparative study of political institutions, which includes the study of formal and informal rules and organizations. Political institutions influence the behavior of citizens, voters and politicians, and ultimately the policy outcomes we observe. Students will think critically about the role that political institutions play in structuring competition for power within a polity. The course will take students through the design, maintenance and reform of political institutions. Some of the topics covered include Democracy, Autocracy & Development; Presidentialism V. Parliamentarism; Coalitions & Coalition Bargaining; Political Parties & Electoral Systems.

POLI 2250 European Politics and the European Union 3 Credits
Course Tags: Politics Major: Comparative Politics
This course examines the history, operation and impact of the European Union (EU) as well as the key political institutions and dynamics of individual European countries, including Great Britain, France, and Germany. It considers the relationship between political culture and political systems and examines and EU and national European approaches to addressing societal problems.

POLI 2251 Islam and Muslim Politics 3 Credits
Course Tags: International Studies Elective, Islamic World Studies: Social Sciences, Politics Major: Comparative Politics
Islam is most often treated as a monolithic force when in fact the relationship between Islam, politics, and society is varied and dynamic. The course introduces students to the diverse pluralism of Islam-influenced practices in politics, education, charitable aid, and business, drawing on examples from many different countries and regions, including Asia, Europe, the Middle East, and North Africa.

POLI 2252 Politics in Africa 3 Credits
Course Tags: Black Studies Focus Course, Humanitarian Action Minor Context Course, International Studies Elective, Politics Major: Comparative Politics
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 potential future developments in Africa's politics.

POLI 2253 Latin American Politics 3 Credits
Course Tags: Diversity, Equality, and Inclusion Minor Elective, International Studies Elective, Latinx, Latin American and Caribbean Studies Minor Elective, Politics Major: Comparative Politics
This course examines contemporary Latin American politics, with particular attention to the challenges and opportunities for democracy and human rights in the region. The course explores key historical developments, the challenges and opportunities presented by domestic and international dynamics in the region, the causes and consequences of democratic breakdowns in the past, the transition to democracy in the later part of the twentieth century, the difficulties several young democracies face today, and the continuous and uneven efforts to advance human rights in the region.

POLI 2255 Middle East Politics 3 Credits
Course Tags: Islamic World Studies: Social Sciences, Peace and Justice Studies, Politics Major: Comparative Politics
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.

POLI 2256 Asian Politics 3 Credits
Course Tags: Asian Studies Elective, Politics Major: Comparative Politics
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.

POLI 2257 Northern Ireland: Politics of War and Peace 3 Credits
Course Tags: Catholic Studies: Non-Religious Studies, Peace and Justice Studies, Politics Major: Political Theory
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 1960s, 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.

POLI 2258 Political Violence 3 Credits
Course Tags: Humanitarian Action Minor Context Course, International Studies Elective, Politics Major: Comparative Politics
This course offers a comparative study of political violence including civil war, terrorism, and separatist movements and explores a variety of theoretical and empirical approaches to violence. The course introduces students to core debates as well as cutting-edge research and includes several important single country studies.

POLI 2259 The Development Gap 3 Credits
Course Tags: International Studies Elective, Peace and Justice Studies, Politics Major: Comparative Politics
This course employs a comparative approach to studying the forces affecting development in developing countries. Examples and studies are drawn from Asia, Africa, Latin America, and the Middle East in order to examine the roots of wealth and poverty, obstacles to development, responses to globalization, and current debates over development prospects.

POLI 2260 Politics and Business in China 3 Credits
Course Tags: Asian Studies Elective, International Studies Elective, Politics Major: Comparative Politics
This course offers an overview of China's recent economic development and its political system under a comparative political context. It provides a foundation that will enable the non-specialist to make informed use of China as a case in more general arguments and give the intended China specialist a solid footing from which to pursue more in-depth study of China's political and economic topics. The course takeaway is an understanding of how the Chinese government and the Chinese Communist Party work and organized, and what are the political, social, cultural, and ideological factors that stand behind its organizations.

POLI 2261 Authoritarianism and Film 3 Credits
Course Tags: Magis Core: Interdisciplinary, 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 interdisciplinary course 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. Film studies helps us understand how cinema communicates specific narratives in such a way that they strengthen or challenge these regimes.

POLI 2262 Contemporary Global Politics 3 Credits
Course Tags: Peace and Justice Studies, Politics Major: International Relations
What is going on in the world? Ukraine v. Russia. The International Court of Justice and the International Criminal Court on Gaza. China invading Taiwan? This course is about making sense of the most relevant issues of contemporary international politics. The course is designed to push your thinking about these and other global issues. We will be evaluating, analyzing, and discussing these complex issues and their wider-world impact. We will survey the common theoretical building blocks of international relations. We will then use them to make sense of the behavior of states and other actors on current global issues.

POLI 2263 Politics of the Global Economy 3 Credits
Course Tags: International Studies Elective, Politics Major: Comparative Politics
This course explores important issues and theories at the intersection of politics and economics in the international arena. Topics include globalization and its impacts; international trade policy and politics; financial relations among nations, including investment and monetary policies; relations between and among developed and developing countries; factors and policies that enhance, inhibit, or shape economic development in poor countries; and/or how different, important theories and analytical approaches attempt to explain economic interactions among countries.

POLI 2331 Introduction to Peace and Justice 3 Credits
Course Tags: American Studies: Gateway, American Studies: Politics, Catholic Studies: Non-Religious Studies, Educational Studies Cognate, International Studies Elective, Peace and Justice Studies, Politics Major: Political Theory
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 resulting from 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 from a variety of perspectives, including Western liberalism, Marxism, and Catholicism, provides a theoretical basis for the study. Each of these traditions has its own perspective for understanding and responding to these problems. 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.

POLI 2332 Utopian Politics 3 Credits
Course Tags: Politics Major: Political Theory
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 recent and classic novels, political theory, science fiction, film, and popular culture. The course involves students in building model utopias that resolve major world problems.

POLI 2333 American Political Thought 3 Credits
Course Tags: American Studies: Gateway, American Studies: Politics, Politics Major: Political Theory
This course considers the philosophical roots of American political thought and the influence on the contemporary American mind and institutions of the American revolutionaries, constitution-makers, Federalists, Jeffersonians, Jacksonians, Alexis de Tocqueville, examiners of the welfare state, pragmatists, and key current voices. The course also explores challenges and reform of the American political system, via analytical lenses related to human nature, idealism, the Constitution and key Amendments, and nationalism.

POLI 2334 Sex, Sexuality, and Gender 3 Credits
Course Tags: American Studies: Gateway, American Studies: Politics, Peace and Justice Studies, Politics Major: Political Theory, Sports Media Elective, Women, Gender, and Sexuality Studies: Gender Focused
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.

POLI 2335 Modern Political Ideologies 3 Credits
Course Tags: Peace and Justice Studies, Politics Major: Political Theory
This course primarily examines the political belief systems in the United States including conservatism, liberalism, democratic socialism, and others. It analyzes these "isms" with reference to democracy's ability to deal with the contemporary problems of American society. It also racism, authoritarianism, totalitarianism, and the basic political and economic ideas of Marx and Engels and the modifications made to their system by Lenin.

POLI 2336 Politics of Race, Class, and Gender 3 Credits
Course Tags: American Studies: Gateway, American Studies: Politics, Black Studies Component Course, Diversity, Equality, and Inclusion Minor Elective, Peace and Justice Studies, Politics Major: Political Theory, Sports Media Elective, Women, Gender, and Sexuality Studies: Gender Focused
Despite claims that we live in a 'postracial' nation, our race, class, and gender identities still systematically shape our experiences, resources, and life chances. But where did those categories come from and how have they been adapted to sustain systems of power and privilege? This course focuses on contemporary works in political theory to analyze the ongoing social construction of racial categories and their intersections with class, gender, and sexuality in American political life. We explore these processes through the distinct-but-interrelated experiences of white, Black, Indigenous, Asian, and Latin Americans.

POLI 2337 Modern Conservatism in America 3 Credits
Course Tags: American Studies: Politics, Politics Major: Political Theory
This course introduces students to the major strains of conservative thought in the United States, with an emphasis on understanding its modern manifestations. The first half of the semester establishes a firm grounding in older variants: classical liberalism, traditionalism, libertarianism, neoconservatism, paleo conservatism, and Movement conservatism. The second half of the course addresses evolutions in the New Right. Students are introduced to the major proponents and critics: from the post liberals and national conservatives, to disaffected former conservative thinkers.

POLI 2471 United Nations Security Council Crisis Simulation 3 Credits
Course Tags: Humanitarian Action Minor Context Course, Politics Major: International Relations
This course provides students a hands-on learning experience 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 geopolitical regions of the world. A key goal of the course is to bring to light whether and how power disparities in the structure of the Council limit the effective representation of many countries and global South as a whole and the stakes in reform of the Security Council. Crosslisted with INST 2471.

POLI 2472 Politics of Humanitarian Action 3 Credits
Course Tags: International Studies Elective, Peace and Justice Studies, Politics Major: International Relations, Public Administration Disaster and Emergency Management
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 skill sets to explore questions such as the accountability of humanitarian actors to the people they aid in risk-laden operational environments.

POLI 2473 Humanitarian and Disaster Response Field Training 3 Credits
Course Tags: Humanitarian Action Minor Skills/Method Course, Politics Major: American Politics, Politics Major: International Relations, Public Administration Disaster and Emergency Management
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.

POLI 2474 International Environmental Policy 3 Credits
Course Tags: Environmental Studies Elective, Environmental Studies Major Elective, Environmental Studies: Social Science, International Studies Elective, Politics Major: International Relations, Public Administration Environment Policy
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.

POLI 2475 Climate Change: International Policy and Politics 3 Credits
Course Tags: Environmental Studies Elective, Environmental Studies Major Elective, Humanitarian Action Minor Context Course, Magis Core: Interdisciplinary, Politics Major: International Relations
This course examines key political, scientific, and economic issues surrounding global climate change and international attempts to address it. Topics include the causes and impacts of climate change, policy-making under uncertainty, key technological, energy and economic issues, key actors and their interests, the history, creation, and content of international climate policy, obstacles to more effective international climate policy, and options for potentially increasing that effectiveness. Students will gain the ability to understand and analyze climate policy options at the global, national and local levels.

POLI 2476 United States Foreign Policy 3 Credits
Course Tags: American Studies: Gateway, American Studies: Politics, International Studies Elective, 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 historical background and explores contemporary issues in United States foreign policy, including key security, economic, and environmental issues as well U.S. promotion of democracy and human rights in different regions of the world, including Asia, Latin America, Western Europe, Africa, and the Middle East.

POLI 2478 The Politics of International Law 3 Credits
Course Tags: Humanitarian Action Minor Context Course, International Studies Elective, Peace and Justice Studies, Politics Major: International Relations
This course provides an introduction to international law. It addresses questions such as: What is international law? What are the major sources? Who makes international law and how? Who is bound by it? What is its impact in different issue-areas? And why do states and other actors usually obey international law even though there is not a world government or police force to enforce it. The course also explores the content and effect of international law in different issue-areas, including human rights, the environment, and the use of military force. Students will also gain a practical overview to the United Nations system, including the Security Council, General Assembly, Secretariat, International Court of Justice, and several specialized agencies, such as UNICEF and UNDP.

POLI 2479 Threats to Global Security in the 21st Century 3 Credits
Course Tags: Humanitarian Action Minor Context Course, Politics Major: International Relations
This course provides a comprehensive introduction to global security. It examines a variety of traditional and new security topics, including wars between states, civil wars, proliferation, environmental degradation, and famine. Students explore these topics through the lenses of major paradigms in International Relations (IR) theory, such as realism, liberalism, and constructivism, as well as perspectives drawn from critical theory, peace studies, and other literatures. In addition to learning to think about global security in a systematic and critical way, students will consider the political, ethical and social dimensions of threats to global security today.

POLI 2480 Border Politics 3 Credits
Course Tags: Humanitarian Action Minor Context Course, International Studies Elective, Peace and Justice Studies, Politics Major: International Relations
This course explores how border politics has 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.

POLI 2481 International Human Rights 3 Credits
Course Tags: Humanitarian Action Minor Context Course, International Studies Elective, Peace and Justice Studies, Politics Major: International Relations
This course explores human rights, actors, and advocacy in a global context. It covers the origin and development of international human rights, the need to apply and enforce legal obligations and establish accountability for human rights violators, and procedures used by the international community to contest human rights violations. In this context, students learn about the progress as well as gaps and erosions of human rights on a range of issues, such as women's rights, disability rights, or protection of human rights defenders in higher education. Students apply these understandings to strategic thinking and advocacy on human rights cases. Crosslisted with INST 2481.

POLI 2501 Research Methods 3 Credits
Course Tags: Public Administration Research Methods/Data Analysis
This course examines how to study and think about policy and politics scientifically and in methodologically useful ways. Students learn 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.

POLI 2900 Special Topics (Shell) 3 Credits
Course Tags: Peace and Justice Studies
This course offers a focused examination of a significant political issue or topic in American politics, public policy, political theory, comparative politics, or international relations. Content varies in successive offerings of this course. May be repeated for credit when topic varies.

POLI 3980 Internship 3-4 Credits
Prerequisite(s): POLI 1101; two other politics courses.
Politics majors gain firsthand experience working off campus in fields related to their major. Typically, a three-credit internship requires 10 to 12 hours of work per week on site and could require a journal or paper. An on-site supervisor and a politics professor evaluate student work. Students must have a GPA or 3.0 or higher. Enrollment by departmental permission only.

POLI 3981 State Legislature Internship 6 Credits
Prerequisite(s): POLI 1101; 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.

POLI 3982 Washington Semester Internship 3-9 Credits
Prerequisite(s): POLI 1101; two other politics courses.
Politics majors work 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 may earn up to nine credits for working as an intern, and may also take one or two classes (three credits each) that count toward the politics major or general electives. Students must have a GPA of 3.0 or higher. Enrollment by departmental permission only.

POLI 3990 Independent Study 1-4 Credits
Prerequisite(s): POLI 1101; 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.

POLI 3997 Independent Research 1-4 Credits
Course Tags: Politics Major: American Politics
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. Previously POLI 3990.

POLI 4301 The Battle Over Family Values in American Politics 3 Credits
Course Tags: American Studies Upper Level, American Studies: Politics, Magis Core: Interdisciplinary, Politics Major: American Politics, Women, Gender, and Sexuality Studies: Gender Focused
Contemporary American politics is marked by numerous debates about the family. Issues such as same-sex marriage, abortion, abstinence and pre-marital sex, shifting gender roles within the family, and new parenting and reproductive methods are among the most hotly debated policy issues in the United States, illustrating the political struggle to define the soul of America and the role of the family within. This course explores contemporary political debates over the family, their policy implications, and significance to current elections, as well as the historical context and previous ideological battles that characterize the tumultuous relationship between the family and the American state.

POLI 4302 Seminar on Feminist Theory 3 Credits
Course Tags: American Studies Upper Level, Peace and Justice Studies, Politics Major: Political Theory, Women, Gender, and Sexuality Studies: Gender Focused
This course explores advanced topics and 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.

POLI 4303 Gender, War, and Peace 3 Credits
Course Tags: Humanitarian Action Minor Context Course, International Studies Elective, Politics Major: International Relations, 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 aspects of globalization and conditions of structural violence make women extremely vulnerable as societies slide toward war. Crosslisted with INST 4303.

POLI 4304 Seminar on Global Environmental Politics 3 Credits
Course Tags: Environmental Studies Elective, Environmental Studies Major Elective, 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: reasons why some policies are created and effective and others are not, accountability, the 2015 Paris climate agreement, current policy for toxic chemicals, why global ozone policy remains a relatively unique example of effective global environmental policy, and the activities of international institutions.

POLI 4305 Seminar on the Middle East 3 Credits
Course Tags: Islamic World Studies: Social Sciences, Politics Major: Comparative Politics
The Middle East justifiably engages a great deal of international attention. This course offers the opportunity to examine a significant problem or issue concerning politics in the Middle East and North Africa region (MENA) conducted in a seminar format. In various semesters the seminar may be taught with a different focus.

POLI 4306 Democracy and Dictatorship 3 Credits
Course Tags: Politics Major: Comparative Politics
Over the past twenty years, there has been a well-documented erosion in the quality of democracy around the globe. Through a survey of the fundamental attributes of democratic and non-democratic forms of government, we endeavor to understand why some countries have adopted democratic norms and institutions while others continue to struggle under various types of authoritarian rule. We begin the semester investigating the major characteristics of democratic regimes. In short, what makes democracy work? Next, we will consider how democracies are sustained through economic development, formal institutions, and political culture. Part III prompts us to identify internal threats to democracy (including, but not limited to) political polarization, disinformation, and elite power grabs. As this is a course in Comparative Politics, which largely focuses on political phenomena within states, external threats to democracy (interstate war, climate change, terrorism) will have to be considered elsewhere. The penultimate section focuses on major non-democratic regime types such as personalist dictatorships, electoral autocracies, military dictatorships, and totalitarianism. The final part of the course considers pathways out of authoritarianism, examining the effects of domestic protests and global civil society on democratization. Throughout the course, we will apply theoretical knowledge to our study of specific case studies, notably, the Philippines, Turkey, Thailand, North Korea, Belarus, and Tunisia. During Week 6, we will engage in a democracy simulation whereby you will formulate strategies designed to counter an impending authoritarian power-grab by a democratically elected president. At the end of this course, you will have developed a clear understanding of democratic processes as well as the threats posed by anti-democratic forces. Most importantly, you will have constructed a new toolkit for supporting democracy at home and abroad. Successful completion of this course counts toward the Politics major/minor requirements.

POLI 4307 The Political Economy of War 3 Credits
Course Tags: International Studies Elective, Politics Major: Comparative Politics
How and why do nations find themselves in the throes of war? What role do economic interests play in shaping the intricate web of international relations? Delving into the intricate interplay between politics, economics, and warfare, this seminar offers a comparative exploration of key political elements. Through a nuanced case study approach, we will unravel diverse theories within the realm of the political economy of war. Embarking on a comparative political approach, the seminar will scrutinize the origins, evolution, transformation, and consequential impact of wars on global politics, all while considering the manifold influences of economic factors.

POLI 4310 War on Voting: Election Laws and Administration in the United States 3 Credits
Course Tags: Politics Major: American Politics
The war on voting is as old as America itself. People of color, women, and the poor all fought for the vote. Universal suffrage is a democratic ideal, but groups, particularly people of color, continue to be systematically disenfranchised because the laws governing elections are increasingly being weaponized for political gain. Examining the history of the vote, what the Constitution says – and doesn't say – about voting, how and why election laws have changed over time, allows us to understand their impact on voters, elections, and American democracy. Particular attention is paid to the Black voting experience.

POLI 4311 Religious Dimensions of Political Thought 3 Credits
Course Tags: Politics Major: Political Theory
This seminar covers the concept of "civil religion" in Western political theory and American political thought. Civil religions emerge in the liminal space between sacred and secular. Building upon previous coursework in political theory, students will consider differing interpretations of the "correct" balance between Church and state in various philosophical works (like those of Machiavelli, Hobbes, Rousseau, and others). Additionally, students will consider the American civil religion as an application of this theory. Sources will include primary texts of the Founders, as well as numerous secondary sources. This class prepares students for scholarly presentations at academic conferences in political science.

POLI 4312 The Politics of Love 3 Credits
Course Tags: Politics Major: Political Theory
While love is rarely taken seriously as a political emotion, especially in a polarized nation like the United States, some political theorists argue love can be tough, principled, and politically transformative. This begs the question: Should love have a place in politics? This seminar explores how love enables us to confront both the beauty and brutality of ourselves and the world, and from that, engage in acts of personal and structural change to address enduring problems of injustice. We explore these dimensions of the politics of love through close reading of its fiercest critics, ambivalent supporters, and greatest proponents.

POLI 4314 International Perspectives on World Politics: Moving Beyond Western Paradigms 3 Credits
Course Tags: International Studies Elective, Politics Major: International Relations
This course examines International Relations (IR) theory from a global perspective. A great deal of the IR theory taught in the United States and Europe mirrors Western, and in particular American, views on international affairs. Because enduring cultural and material differences across countries and regions can lead to different perspectives on global affairs, this limited perspective is problematic both intellectually and instrumentally. This course engage constructively with contributions to IR theory from other perspectives, in particular the Global South, and compares and contrasts them with prevailing Western oriented paradigms, in an effort to better understand our world.

POLI 4320 Politics Seminar 3 Credits
Prerequisite(s): Junior standing.
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 by permission only.

Portuguese (PORT)

PORT 1110 Elementary Brazilian Portuguese I 3 Credits
Course Tags: Latinx, Latin American and Caribbean Studies Minor Elective
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.

PORT 1111 Elementary Brazilian Portuguese II 3 Credits
Course Tags: Latinx, Latin American and Caribbean Studies Minor Elective
Prerequisite(s): PORT 1110.
This course, a continuation of PORT 1110, 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.

PORT 2210 Intermediate Brazilian Portuguese I 3 Credits
Course Tags: Latinx, Latin American and Caribbean Studies Minor Elective
Prerequisite(s): PORT 1111.
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.

PORT 2211 Intermediate Brazilian Portuguese II 3 Credits
Course Tags: Latinx, Latin American and Caribbean Studies Minor Elective
Prerequisite(s): PORT 2210.
This course, a continuation of PORT 2210, 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, CAS (PSYC)

PSYC 1010 General Psychology 3 Credits
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?

PSYC 1110 Lifespan Development 3 Credits
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. This course is primarily for nursing majors.

PSYC 1210 Fundamentals of Social Psychology 3 Credits
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 PSYC 2210 may not take this course.

PSYC 1220 Psychology and the Law 3 Credits
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 by the justice system in contrast to that received by non-psychiatric populations; 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.

PSYC 1310 Psychopathology and Clinical Science for Non-Majors 3 Credits
Course Tags: 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 PSYC 2310 may not take this course.

PSYC 1710 General Neuroscience 3 Credits
Course Tags: Magis Core: Interdisciplinary
This course introduces neuroscience concepts and terminology, such as neuron, glia, and action potential, with explanations to connect with fundamental biological concepts of cell structure. These concepts are then applied to understand techniques used in the advancement of neuroscience. From these techniques, we then explore the neuroscientific understanding of neurologic disorders.

PSYC 1740 Drugs, Brain and Behavior 3 Credits
Course Tags: Health Studies: Social Science, Magis Core: Interdisciplinary
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.

PSYC 1745L Drugs and Behavior Field Experience Lab 1 Credit
As an optional supplement to PSYC 2740 in fall or spring, this field experience lab includes an observational research study in Fairfield and abroad in Ireland. During initial lab meetings, students will read primary literature and develop a research question about social behaviors in pubs in both locations. After collecting data in Fairfield, students will travel to Ireland to continue their research, analyze major findings, and present results. The course will also include interactive discussions with faculty and students in Neuropharmacology labs abroad. Upon return to Fairfield, a formal paper or research poster will be submitted. Enrollment by permission only.

PSYC 2110 Child Development 3 Credits
Prerequisite(s): PSYC 1010.
Using a research-oriented approach, this course focuses on the principal themes, processes, and products of human development from conception through the start of adolescence. Students who have taken PSYC 2150 may not take this course.

PSYC 2120 Adult Development and Aging 3 Credits
Prerequisite(s): PSYC 1010.
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.

PSYC 2130 Cross-Cultural Perspectives on Lifespan Development 3 Credits
Prerequisite(s): PSYC 1110 or PSYC 2110 or PSYC 2150.
This course explores various developmental processes and cultural practices across the lifespan such as rites of passage, 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?

PSYC 2150 Child Development with Lab 4 Credits
Course Tags: Educational Studies Cognate
Prerequisite(s): PSYC 1010.
Although the content of this course is identical to PSYC 2110, it offers psychology majors the opportunity to participate in a laboratory experiential learning component in community partner preschool classrooms. Specific hands-on assignments complement course material. Students who have taken PSYC 2110 may not take this course.

PSYC 2160 Adolescent Development 3 Credits
Prerequisite(s): PSYC 1010.
Adolescence is a period of development that has lasting implications. How do people develop knowledge, skills, and relationships that allow them to become successful adults? This course will engage the scientific study of biological, psychological, cognitive, emotional development, personality, and social changes that occur during adolescence. Throughout the course we will discuss the definition of adolescence and explore identity, gender, sexuality, family relationships, peer influence, risk behavior, education, work, and media. Students will use the fundamental concepts taught in this course to critically think about adolescent issues and apply this knowledge to present day problems affecting adolescents.

PSYC 2210 Social Psychology 3 Credits
Course Tags: Diversity, Equality, and Inclusion Minor Elective
Prerequisite(s): PSYC 1010.
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.

PSYC 2220 Stereotyping, Prejudice, and Discrimination 3 Credits
Course Tags: Diversity, Equality, and Inclusion Minor Elective, Educational Studies Cognate, Peace and Justice Studies
Prerequisite(s): PSYC 1010.
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, students 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.

PSYC 2230 Personality Psychology 3 Credits
Prerequisite(s): PSYC 1010.
In what ways do you differ from other people, and in what ways are you similar? How did you come to be that way? The psychology of personality examines how individual differences in tendencies toward attitudes, behavior, and cognition cohere into stable constellations that people recognize as personality. Topics will include personality assessment, personality development, personality stability and change, biological and contextual influences on personality, emotion and motivation, and psychological adjustment. Although we will explore the major historical perspectives in personality research, the course will focus primarily on current empirical research and modern theories of personality.

PSYC 2240 Cultural Psychology 3 Credits
Prerequisite(s): PSYC 1010.
This course is designed to introduce students to current theories and research about the ways in which sociocultural contexts influence human mind and behavior. Topics will include cultural similarities and differences in basic psychological processes, including human development, personality, motivation, cognition, emotion, health, morality, and social relationships. The course will also explore the role psychology has played in understanding the experiences of culturally diverse groups. It will introduce students to the ways in which psychologists consider culture in the interpretation of personal experience, which will leave students better able to understand and successfully navigate multicultural contexts in our increasingly culturally diverse world.

PSYC 2310 Psychopathology and Clinical Science 3 Credits
Course Tags: Health Studies: Social Science
Prerequisite(s): PSYC 1010.
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. Students who have taken PSYC 1310 may not take this course.

PSYC 2330 Gender and Mental Health 3 Credits
Course Tags: Women, Gender, and Sexuality Studies: Gender Focused
Prerequisite(s): PSYC 1010.
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.

PSYC 2340 Theories in Psychotherapy 3 Credits
Prerequisite(s): PSYC 2310.
This course explores similarities and differences across a wide range of psycho-therapeutic endeavors by means of lectures and videos. The course covers traditional psychoanalytic techniques and more recent innovations.

PSYC 2360 Human Neuropsychology 3 Credits
Course Tags: Health Studies: Science and Technology
Prerequisite(s): PSYC 1010 or PSYC 1610 or PSYC 2610 or PSYC 1710.
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 lifespan 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.

PSYC 2370 Community Mental Health 3 Credits
Course Tags: Health Studies: Social Science
Prerequisite(s): PSYC 1010 or PUBH 1101.
This course provides an overview of the social and psychological foundations of community behavioral and mental health practice. Using psychological knowledge of healthy human development across the lifespan, major community mental 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 community behavioral and mental health problems such as individuals living with chronic mental illness, depression and anxiety, addiction, as well as attention to the issues related to specific populations such as the LGBTQ community, individuals living in violent neighborhoods, veterans and military families, immigrants, and the elderly.

PSYC 2380 Psychology of Sports, Exercise, and Performance 3 Credits
Prerequisite(s): PSYC 1010.
This course examines various psychological principles underlying sport, exercise and high performance. Emphasis is placed on both theoretical foundations (e.g., personality, motivation, stress, anxiety, arousal, attribution, neuropsychology and mental health) and empirically-based applications (e.g., mindfulness, imagery training, self-talk and goal-setting techniques) to achieve peak performance, reduce anxiety, enhance mental skills, improve self-efficacy, and increase self-confidence to achieve optimal performance for those in high-performance domains, such as athletes, musicians, dancers, business leaders and military personnel.

PSYC 2390 Psychology of Diversity 3 Credits
Prerequisite(s): PSYC 1010.
Diversity is an important and enriching aspect of our lives. This course will examine various aspects of diversity (e.g., discrimination, stereotypes, stigma, bias, culture, power, immigration) and how these aspects interact with each other. We will explore how diversity is manifested in real-world contexts and consider evidence-based strategies for reducing social bias. Students will also investigate areas of personal interest through student-led presentations, discussions, and connecting research to lived experiences.

PSYC 2510 Cognitive Psychology 3 Credits
Course Tags: Educational Studies Cognate
Prerequisite(s): PSYC 1010 or PSYC 2610 or PSYC 1710.
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.

PSYC 2520 Learning and Applied Behavior Analysis 3 Credits
Course Tags: Educational Studies Cognate
Prerequisite(s): PSYC 1010 or PSYC 2610 or PSYC 1710.
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.

PSYC 2540 Psycholinguistics 3 Credits
Course Tags: Magis Core: Interdisciplinary
Prerequisite(s): PSYC 1010.
This course explores the phenomenon of language in the mind and brain, including: How do children learn their first language(s) and why is it such a different experience for an adult to learn a language? What about second language acquisition? What are language disorders? Is spoken language processed differently from written language? What about sign languages? Class will include discussions, presentations, and hands-on analysis of language data.

PSYC 2610 Behavioral Neuroscience 3 Credits
Course Tags: Magis Core: Interdisciplinary
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.

PSYC 2620 Sensation and Perception 3 Credits
Prerequisite(s): PSYC 1010 or PSYC 2610 or PSYC 1710.
How do we see, hear, touch, taste, and smell? What about individual differences? This course explores basic sensory mechanisms and perceptual processing, including color, depth, pattern, and motion perception. An experiential learning component facilitates student comprehension of individual differences in sensation and perception. Students will also complete an integrative final project to reinforce their understanding of the vast range of sensory and perceptual concepts addressed throughout the course.

PSYC 2810 Statistics for the Behavioral Sciences 4 Credits
Course Tags: Environmental Studies: Applied Professional Skills
Corequisite(s): PSYC 2810L.
Prerequisite(s): PSYC 1010.
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. Note: This course does not fulfill any core requirements.

PSYC 2810L Statistics Lab 0 Credits
Course Tags: Environmental Studies: Applied Professional Skills
Corequisite(s): PSYC 2810.

PSYC 2820 Research Methods in Psychology 4 Credits
Course Tags: Magis Core: Writing in the Discipline
Prerequisite(s): PSYC 2810.
Building on PSYC 2810, 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.

PSYC 2830 Research Methods in Behavioral Neuroscience 4 Credits
Course Tags: Magis Core: Writing in the Discipline
Prerequisite(s): PSYC 1710, PSYC 2810.
This course is designed to build your skills to be able to read, evaluate, design, conduct, and report research. Although research spans disciplines, the research techniques and topics in this course focus on behavioral neuroscience in humans and laboratory animals. As such, the responsible conduct of research following appropriate ethical guidelines is essential.

PSYC 2900 Special Topics (Shell) 3 Credits
Prerequisite(s): PSYC 1010 or PSYC 1610.
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.

PSYC 2950 Supervised Research: Psychology 1 Credit
Prerequisite(s): PSYC 1010.
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. Student researchers are expected to spend 3 hours per week in the lab and attend a weekly lab meeting. Enrollment by permission only.

PSYC 2955 Supervised Research: Behavioral Neuroscience 1 Credit
Prerequisite(s): PSYC 1010 or PSYC 1610 or PSYC 1710.
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. Student researchers are expected to spend 3 hours per week in the lab and attend a weekly lab meeting. Enrollment by permission only.

PSYC 3380 Clinical Psychology Assessment 3 Credits
Prerequisite(s): PSYC 1010, PSYC 2810.
This course offers an introduction to the principles of psychological test construction, administration and interpretation, and reviews the roles that these tests have in 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.

PSYC 3610 Cognitive Neuroscience 3 Credits
Prerequisite(s): PSYC 1710 or PSYC 2610 or permission of instructor.
This course provides an introduction to cognitive neuroscience: the study of how the brain enables a variety of cognitive processes. We will begin with a review of the human nervous system and an in-depth examination of the variety of cognitive neuroscience tools employed to understand the structure and function of the human brain. We will then cover the neural processes that support sensation, perception, attention, memory, motor control, language, executive control, and emotional and social functioning. Along the way, we will discuss various diseases, disorders, and illusions from the cognitive neuroscience perspective.

PSYC 3720 Hormones and Behavior 3 Credits
Prerequisite(s): BIOL 1172 or PSYC 1710 or PSYC 2610 or permission of instructor.
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 and 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.

PSYC 3740 Pharmacology and Mental Disorders 3 Credits
Course Tags: Health Studies: Science and Technology
Prerequisite(s): PSYC 1710 or PSYC 1740 or permission of instructor.
Building on a foundational knowledge of Behavioral Neuroscience and Drugs and Behavior, this course provides a more in-depth exploration of the field of Psychopharmacology, focusing on more advanced principles of pharmacology, chemical signaling in the brain, and current treatments for anxiety, mood disorders, schizophrenia and other select conditions (e.g., ADHD, substance use disorder). We will consider the neural systems and disease mechanisms that are thought to underlie various mental disorders. The student will also learn about the drug discovery and development process including leading examples of experimental therapeutics currently in clinical development.

PSYC 3760 Molecular and Cellular Neuroscience 3 Credits
Prerequisite(s): BIOL 3312 or PSYC 2610 or PSYC 1710 by permission of instructor.
Building on a foundation of introductory neuroscience, this course aims to provide a more in-depth exploration of cellular and molecular mechanisms involved in neural signaling, synaptic transmission, neural development, and neuroplasticity. The student will learn about the structural, biochemical, and biophysical properties of neurons and their dynamic regulation by genetic and environmental factors. We will also explore how aberrations in molecular and cellular mechanisms can lead to the development of neurological and psychiatric disorders.

PSYC 3950 Supervised Research: Psychology 3 Credits
Prerequisite(s): PSYC 2820 or PSYC 2830.
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. Student researchers are expected to spend 9-10 hours per week in the lab and attend a weekly lab meeting. Enrollment by permission only.

PSYC 3955 Supervised Research: Behavioral Neuroscience 3 Credits
Prerequisite(s): PSYC 2810 (concurrency allowed).
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. Student researchers are expected to spend 9-10 hours per week in the lab and attend a weekly lab meeting Enrollment by permission only.

PSYC 3980 Psychology Teaching Practicum 3 Credits
Prerequisite(s): PSYC 1010 or PSYC 1610.
This practicum experience, open to advanced psychology majors, affords students an opportunity to explore teaching psychology as a profession. Under the direct supervision of a faculty mentor, students engage the issues of curriculum development, methods of classroom instruction, selection and use of media resources, test construction, and strategies for the academic and practical motivation of students. Interns observe participating faculty engaged in the profession of teaching and share in some instructional activities. Enrollment by permission only.

PSYC 4110 Senior Seminar: Current Issues in Developmental Psychology 3 Credits
This seminar engages with current issues in developmental psychology research, with a particular emphasis on child development. Although the specific topics covered in the course will vary 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. Students will apply insights from developmental psychology research to educational, clinical, and policy contexts, with an emphasis on promoting children's learning and well-being across diverse settings. Open to senior Psychology majors.

PSYC 4210 Senior Seminar: Current Issues in Social Psychology 3 Credits
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, students 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. Open to senior psychology majors. Permission of instructor is required for junior psychology majors.

PSYC 4220 Senior Seminar: Health Psychology 3 Credits
Course Tags: Health Studies: Social Science
This course provides an in-depth survey of the discipline of health psychology, framed within the context of sociocultural factors such as ethnicity, gender, and socioeconomic 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.

PSYC 4310 Senior Seminar: Clinical Child and Adolescent Psychology 3 Credits
Prerequisite(s): PSYC 1110 or PSYC 2110 or PSYC 2150.
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.

PSYC 4320 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.

PSYC 4510 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, students will explore research addressing confusions between real and imagined memories, the reliability of eyewitness 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.

PSYC 4610 Senior Seminar: Current Issues in Behavioral Neuroscience 3 Credits
Prerequisite(s): PSYC 1710 or PSYC 2610 or PSYC 1740 or permission of instructor.
This senior seminar will provide students with an overview of current research in behavioral neuroscience, with particular emphasis on behavioral endocrinology (hormones and behavior). 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 and behavioral neuroscience majors. Permission of the instructor required for junior psychology and behavioral neuroscience majors and non-majors.

PSYC 4620 Senior Seminar: Integrative Neuroscience 3 Credits
Prerequisite(s): PSYC 1710 or PSYC 2610 or permission of instructor.
This course explores neuroscience through in-depth analysis of high-impact publications in the field. The course is structured such that the initial lectures will provide a refresher on foundational neuroscience concepts and techniques. Subsequent sessions are student-led discussions of published research articles across a number of conditions (e.g., Alzheimer's disease, sleep, stress, substance use disorders), model organisms (e.g., humans, rodents, cephalopods, crustaceans), and research approaches (e.g., behavior, EEG, microscopy). Open to senior psychology majors and behavioral neuroscience majors.

PSYC 4650 Neuroanatomy and Behavior 3 Credits
Corequisite(s): PSYC 4650L.
Prerequisite(s): PSYC 1610.
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.

PSYC 4650L Neuroanatomy and Behavior Lab 1 Credit
Corequisite(s): PSYC 4650.

PSYC 4710 Senior Seminar in Neuroscience of Human Memory 3 Credits
Prerequisite(s): PSYC 1710 or PSYC 2610 or permission of instructor.
Memory is a critical component of the human experience. We frequently rely on our ability to store and retrieve information, whether it be to login to our computer, remembering that you need submit a paper by noon, or reminiscing about a favorite vacation. This course will explore the neural underpinnings of different types of human memory, including long-term memory, memory failure, working memory, and implicit memory. We will also consider diseases of memory, how memory interacts with other cognitive processes, how memory differs across species, and the intersection of neuroscience, memory, and the law. Open to junior and senior psychology and behavioral neuroscience majors or by permission.

PSYC 4900 Special Topics: Senior Seminar 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 and behavioral neuroscience majors or by permission of instructor.

PSYC 4950 Research Thesis in Psychology 4 Credits
In this course, students engage in an advanced research project, under the mentorship of a faculty member. This can include conducting a literature review, developing hypotheses, designing and implementing a research protocol, and analyzing and interpreting data. Students write a thesis in APA-style, including an introduction with a thorough review of relevant literature, a detailed description of methods and procedure, as well as the results and a discussion about the conclusions and contribution of the project. Permission from the professor supervising the project is needed prior to registering for this course, and a research proposal is often required prior to acceptance, so early planning is essential. Enrollment by permission only.

PSYC 4955 Research Thesis in Behavioral Neuroscience 4 Credits
In this course, students engage in an advanced research project, under the mentorship of a faculty member. This can include conducting a literature review, developing hypotheses, designing and implementing a research protocol, and analyzing and interpreting data. Students write a thesis in APA-style, including an introduction with a thorough review of relevant literature, a detailed description of methods and procedure, as well as the results and a discussion about the conclusions and contribution of the project. Permission from the professor supervising the project is needed prior to registering for this course, and a research proposal is often required prior to acceptance, so early planning is essential. Enrollment by permission only.

PSYC 4981 Internship in Applied Psychology 1-3 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.

PSYC 4982 Internship in Applied Psychology 1-3 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.

PSYC 5110 The Psychology of Work: Industrial/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 five-year integrated bachelor's and master's degree in Industrial/Organizational Psychology, permission of the instructor is required.

PSYC 5210 Team Processes 3 Credits
Today's workplace increasingly relies on collaboration and teamwork. A thorough understanding of group and team dynamics, as well as specific approaches to team facilitation, are important for I/O psychologists – whether working on a team themselves or assessing the functioning of your organization's teams. The course will cover the characteristics of a team and common stages of development, team communication dynamics, and common team problems. During the semester, students will work in a team to develop their own team skills.

PSYC 5310 Diversity, Equity, and Inclusion at Work 3 Credits
This seminar-style course will explore the issues of diversity, equity, and inclusion at work. These are critical for today's organizations and are a primary way that I/O psychologists can advance ethical principles in the workplace. The course will discuss common equity problems (e.g., internal pay equity), best practices to ensure equity (e.g., in selection and promotion processes), and common barriers to equity. The course also discusses both the practical and personal value of diversity in the workplace, as well as some of the legal issues surrounding DEI.

PSYC 5320 Gender and Mental Health 3 Credits
This course explores the relationship between gender and mental health, including gender identity, gender differences 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. In addition, students will engage with literature regarding the use of "big data" to better understand the intersectionality of gender and mental health, as well as to evaluate the effectiveness of interventions aimed at addressing psychopathology.

PSYC 5410 Conflict Management and Negotiation 3 Credits
As an I/O practitioner, conflict management and negotiation skills are essential. This course provides theory, frameworks, tools, and skills to handle interpersonal bargaining - whether negotiating a formal consulting contract with a client or interviewing an employee who is upset about internal equity issues. The course will introduce the concepts of distributive and integrative negotiation, as well as mediation and conflict management, providing evidence-based guidance about how to approach each situation. Class sessions will provide hands-on simulations to build your comfort and confidence with negotiation situations.

PSYC 5810 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 non-parametric tests of significance. Applied Psychology students must earn at least a B in this course for the course to count toward their degree. Candidates with a prior course in statistics may try to test out before the first class. Students must 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.

PSYC 5820 Research in Psychology 3 Credits
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.

PSYC 6230 Program Evaluation 3 Credits
Prerequisite(s): PSYC 5820.
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.

PSYC 6260 Employee Development and Training Programs 3 Credits
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.

PSYC 6310 Effective Interviewing and Survey Design 3 Credits
In I/O psychology, interviews and surveys are two of the most common data collection methods. This course builds upon the content from PSYC 5810 Behavioral Statistics and PSYC 5820 Research in Psychology, to give you specific skills related to the collection of data from employees, organizations, and stakeholders. The course introduces various types of interviews and the best practices for each, then covers the process for development of a valid and reliable survey. Students will perform interviews both in the classroom and in the real-world and will develop and test a survey instrument.

PSYC 6410 Consulting and Organizational Development 3 Credits
Helping organizations solve problems is a common responsibility for I/O psychologists. This course introduces you to the process of business consulting (e.g., entry, contracting, data collection, etc.), common ethical issues in consulting, differences between internal and external consulting, various contexts within which consulting takes place (e.g., business, non-profit, education), and career paths for those interested in consulting work. It will explore different types of consulting typically done by I/O practitioners, with an emphasis on organizational development. Using case studies and working with real organizations, students will apply psychological principles and organizational theory to build their consulting knowledge and skill.

PSYC 6520 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.

PSYC 6850 Fieldwork in Industrial/Organizational Psychology 3 Credits
Prerequisite(s): Completion of 21 credits in psychology, including PSYC 5110, PSYC 5810, PSYC 5820, 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.

PSYC 6999 Comprehensive Exam in Industrial/Organizational 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.

Psychology, SEHD (PSYG)

PSYG 5430 Foundations of Ethical, Legal, and Professional Practice 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.

PSYG 5433 Applied Statistics for School Psychologists 3 Credits
The statistics course is designed to teach school psychology students applied techniques to use in service of completing their e-Portfolios for NASP accreditation and their practical work in schools as school psychologists.

PSYG 5434 Multicultural Issues in School Psychology 3 Credits
In this class you will examine multicultural issues in school psychology in order to provide the most effective and culturally sensitive services to individuals and families. Diversity in children, families, schools, and communities, including factors related to abilities, disabilities, child development, religion, culture and cultural identity, race, sexual orientation, gender identity and expression, socioeconomic status, and other diverse characteristics and the impact they have on development and learning will be discussed. You will recognize that equitable practices for diverse student populations, respect for diversity in development and learning, and advocacy for social justice are foundational to effective service delivery. While equality ensures that all children have the same access to general and special educational opportunities, equity ensures that each student receives what they need to benefit from these opportunities. 3 Credits.

PSYG 5436 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.

PSYG 5437 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.

PSYG 5438 Treatment Models 3 Credits
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.

PSYG 5446 Advanced Foundations of Development and Learning: From Theory to Practice 3 Credits
This course is designed to help emerging school-based clinical practitioners enhance their knowledge of the various domains of developmental psychology and the role of the school psychologist and/or educator in promoting and supporting development through the lifespan. Candidates will examine human development from the prenatal period through adolescence with an emphasis on the socio-cultural context and resiliency science. Candidates will increase their facility in examining case data from a developmental lens and infusing of the principals of positive psychological science to promote development and psychological wellness. Competence in developing clinically robust developmental questions is also a central feature of this course.

PSYG 5448 Foundations in Equity-Based Multi-Tiered Systems of Support 3 Credits
Multi-Tiered Systems of Support (MTSS) is a service delivery paradigm currently used by school districts to provide a continuum of evidence-based multi-tiered supports to address students' academic, behavioral, and socioemotional vitality. This course will provide candidates with foundational knowledge in implementing and evaluating MTSS with an emphasis on equity and accessibility in service delivery. Through the use select texts and course assignments, candidates will gain facility in designing MTSS structures and leading support learning and interventions through an inclusive framework and equity-driven implementation lens.

PSYG 5900 Special Topics (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. Candidates may take a special topic course more than once, as long as the course content and foci are distinctly identified.

PSYG 5900A Applied Statistics for School Psychologists 3 Credits
The statistics course is designed to teach students applied techniques to use in service of completing their e-Portfolios for NASP accreditation and their practical work in schools as school psychologists.

PSYG 6449 Introduction to Clinical Child Neuropsychology 3 Credits
Prerequisite(s): PSYG 6538, PSYG 6540.
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.

PSYG 6534 Advanced Foundations of Learning & Development 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 EDUC 6534.

PSYG 6535 Collaborative Consultation 3 Credits
Prerequisite(s): PSYG 5430, PSYG 6548.
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.

PSYG 6537 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.

PSYG 6538 Psychoeducational Assessment II: Standardized Approaches 3 Credits
Fee: $95 SEHD Lab Fee
Corequisite(s): PSYG 6540.
Prerequisite(s): 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.

PSYG 6540 Psychoeducational Assessment III: Clinical Approaches 3 Credits
Fee: $95 SEHD Lab Fee
Corequisite(s): PSYG 6538.
Prerequisite(s): 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.

PSYG 6544 Psychoeducational Assessment IV: Integrated Assessment 3 Credits
Prerequisite(s): PSYG 6538, PSYG 6540.
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.

PSYG 6545 Advanced Seminar in Linguistically and Culturally Responsive Assessment 3 Credits
This course is an extension of PSYG 6544 with emphasis on the assessment of English Learners and learners with diverse cultural backgrounds. Advanced issues in administration, scoring, theoretical interpretation, psychometric and qualitative characteristics, and comparative analysis of both contemporary cognitive and academic ability test batteries with individuals who are culturally and linguistically diverse form the major components of this course. Emphasis is placed on an integrated approach to assessment, report writing, and interpreting data from cognitive and achievement batteries with current, research-based methods that represent best practices in nondiscriminatory assessment and intervention. Candidates examine the historical perspective and theoretical understanding of critical issues in multicultural education and psychology. The course addresses the role of the bilingual school psychologists working with culturally and linguistically diverse students as well as the impact of cultural factors on the assessment process of culturally and linguistically diverse students. Candidates will gain knowledge on differentiating learning disorders from the process of second language acquisition through the use of non-biased assessment including testing in the child's native language, bilingual testing, and adaptation of standardized instruments and techniques.

PSYG 6546 Practicum in Bilingual & Culturally Responsive Assessment 3 Credits
This course is one of three in the Concentration in Bilingual & Culturally Responsive Assessment. It is taken in Spring concurrent with PSYG 6546. This course provides supervision for the assessment assignments completed in the practicum field placement. Pragmatic concerns in administration, scoring, theoretical interpretation, psychometric and qualitative characteristics, and comparative analysis of both contemporary cognitive and academic ability test batteries with individuals who are culturally and linguistically diverse form the major components of this course. Emphasis is placed on an integrated approach to assessment, report writing, and interpreting data from cognitive and achievement batteries with current, research-based methods that represent best practices in nondiscriminatory assessment and intervention.

PSYG 6548 Psychotherapeutic Techniques 3 Credits
Fee: $95 SEHD Lab Fee
Prerequisite(s): PSYG 5430, PSYG 5438, PSYG 5446.
This course provides a foundation in psychotherapeutic techniques. Topics include the purposes and rationale for such techniques, selection of appropriate methodologies, and ethical considerations, and practice skills.

PSYG 6951 Practicum I: Assessment and Group Process 3 Credits
Corequisite(s): PSYG 6544.
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 focuses on teaching group counseling and provides in-class opportunity to experientially learn group process from the perspective of a group member, as well as group facilitator. Candidates also learn to develop lesson plans and conduct whole class lessons. Enrollment by permission only.

PSYG 6952 Practicum II: Counseling and Group Process 3 Credits
Prerequisite(s): PSYG 6951.
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 their internship.

PSYG 6981 Internship in School Psychology I 3 Credits
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. Enrollment by approval of the program coordinator.

PSYG 6981P Internship in School Psychology I 0 Credits
See PSYG 6981.

PSYG 6982 Internship in School Psychology II 3 Credits
Prerequisite(s): PSYG 6981.
This course provides weekly supervision and support at the university for candidates during the spring 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.

PSYG 6982P Internship in School Psychology II 0 Credits
See PSYG 6982.

PSYG 6990 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.

PSYG 6999 Comprehensive Examination in School Psychology 0 Credits
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.

Public Administration (PUAD)

PUAD 5400 Data Analysis for Public Administrators 3 Credits
Public administrators use data in a variety of ways. Data analysis is necessary for conducting policy analysis or evaluating programs and policies. Therefore, being able to understand, utilize, and apply data is a necessary part of public administration. In this course, students will learn how to utilize statistical concepts in their roles as public administrators. Students will also learn a variety of different techniques used by public administrators to analyze and evaluate programs, services, and policies.

PUAD 5405 Introduction to Public Administration 3 Credits
This course provides an overview of the history, practical nature, and function of public administration and policy making at the federal, state, and 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.

PUAD 5410 Financial Management and Budgeting 3 Credits
Course Tags: Public Administration City Government
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.

PUAD 5415 Human Resource Management 3 Credits
This course is designed to acquaint students with both the theory and practice of human resource management in the public and nonprofit sectors. The class will consist of readings, discussions, and exercises that will demonstrate public personnel management techniques and strategies. Students will leave the course with a deeper understanding of the difficulties involved in effective public personnel management.

PUAD 5420 Research Methods 3 Credits
This course introduces students to research methodologies used in the social sciences and prepares them to design and conduct research relevant to public administration. Emphasis is placed on understanding foundational research techniques, including research design, literature review strategies, data collection methods, selection of appropriate analytical approaches, and ethical considerations in public-sector research. Students will learn to formulate research questions, evaluate existing scholarship, and develop a well-structured research proposal focused on a problem or topic within public administration. By the end of the course, students will be equipped with the methodological skills necessary to undertake independent applied research.

PUAD 5425 Administrative Leadership and Ethics 3 Credits
This course explores leadership within the public sector. It focuses on leadership theories, leadership skills and how to develop them within an ethical framework. What can, or should, we expect from our leaders in the public sector? What can, or should, our public leaders expect from us? What is the nature of the relationship between the two? How do we ensure ethical behavior as public administrative leaders?

PUAD 5430 Economics of the Nonprofit Sector 3 Credits
Course Tags: Public Administration Nonprofit Management
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.

PUAD 5435 Grant Writing 3 Credits
Course Tags: Public Administration Grant and Proposal Writing
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.

PUAD 5440 State and Local Government 3 Credits
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.

PUAD 5445 Urban Policy 3 Credits
This course examines how decisions shape the ways in which people live in cities. Over the past century and a half, cities have become the center of social, economic, political, and cultural activity. With a focus on urban policy from post-WWII to present, students will examine at theories and solutions to urban problems, such as housing, economic revitalization, transportation, socio-spatial segregation, health and welfare, sustainability, while paying particular attention to the roles and responsibilities of levels of government, how politics can influence policy, and the relationship between government, non-profit, and private sectors.

PUAD 5470 American Public Policy 3 Credits
This course is an introduction into the study of public policy. Students will learn about the various models and theories surrounding the study of public policy. Several specific policies will be covered, such as healthcare policy, civil rights policy, and environmental policy. By the end of this course, students will have an understanding of significant public policies, how public policies are formulated, the tools and techniques used in making public policy, and the ability to assess public policies.

PUAD 6999 Seminar in Public Administration 3 Credits
This graduate capstone seminar provides students with an integrative, culminating experience in the Master of Public Administration program. Working under the close mentorship of a faculty advisor, students design, execute, and present an applied research project that demonstrates mastery of public administration theory, research methods, and professional competencies.

Public Health (PUBH)

PUBH 1101 Public Health and Social Justice 3 Credits
Course Tags: Diversity, Equality, and Inclusion Minor Elective, Educational Studies Cognate, Public Administration Public Health
This course introduces students to the history, core functions, and essential services of public health and serves as a foundation for further study in the discipline. During this course, students will gain an understanding of the social, ecological, and environmental determinants of health; recognize the roles of public policy and cultural values in maintaining health inequities in the U.S. and globally; and develop the ability to advocate for solutions to public health problems using a social justice approach.

PUBH 1105 Biological Foundations of Public Health 3 Credits
In this course, students will learn the basic biological concepts of human health and disease, with particular emphasis on diseases that are of most public health relevance. Students will gain a foundational understanding of infectious, non-communicable, and genetic diseases and their prevention and treatment strategies.

PUBH 2201 Public Health, Disease, and Injury 3 Credits
Course Tags: Public Administration Disaster and Emergency Management, Public Administration Public Health
Prerequisite(s): PUBH 1101.
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 human health with an emphasis on leading global causes of morbidity and mortality, key risk factors, and broader social determinants of health, specifically highlighting the influence of race, ethnicity, gender and class as it relates to health outcomes. The student will gain an understanding of principles of endemic disease and injury control and will establish the foundation for more advanced courses in the major. Students will also have the opportunity to integrate their experience in a local community context with relevant social determinants of health, to analyze one's social identity, cultural values and privilege in the context of health inequity. I invite you to participate with me in this important work as a collective group working towards anti-racism and equitable public health policies, practices, and community norms.

PUBH 2205 Fundamentals of Nutrition 3 Credits
Course Tags: Educational Studies Cognate
This course will introduce students to the fundamental concepts of human nutrition. Students will develop an understanding of the digestion, absorption, and function of nutrients in the body and the relationship between diet and health. Course topics will also include macronutrients, micronutrients, metabolism, weight management, and fitness.

PUBH 2216 Introductory Principles of Epidemiology 3 Credits
Prerequisite(s): MATH 1016 or higher, PUBH 1101.
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 of study design and data interpretation.

PUBH 2217 Biostatistics for Health Research 3 Credits
Course Tags: Health Studies: Science and Technology
Prerequisite(s): MATH 1017 or higher; PUBH 2216.
Biostatistics is the foundation for many forms of health research with applications in several other disciplines. This course is designed to introduce students to the core principles of statistical practices used in the Public Health research setting and familiarize students with the applications of biostatistics in health research. During the course, students will practice applied biostatistics by using SPSS to complete data analysis of a public health dataset.

PUBH 2240 Introduction to Global Public Health 3 Credits
Course Tags: Health Studies: Traditions, Delivery, and Ethics, Humanitarian Action Minor Context Course, Latinx, Latin American and Caribbean Studies Minor Elective, Public Administration Disaster and Emergency Management, Public Administration Public Health
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. Students will analyze current and emerging global health priorities, including emerging communicable and non-communicable diseases, poverty, inequities, and conflicts and crises. Global issues related to the impact of social policies on healthcare equity and needs of vulnerable populations are also examined.

PUBH 2250 Community Nutrition 3 Credits
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 assignments. During the course, students will create a nutrition brochure 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.

PUBH 3303 Public Health Program Planning and Evaluation 3 Credits
Course Tags: Public Administration Public Health
Prerequisite(s): PUBH 2201, PUBH 2216, PUBH 2217.
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).

PUBH 3980 Public Health Internship 1-6 Credits
Prerequisite(s): Senior Standing.
This public health internship may be completed with a regional public health partner. 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. Students will work to connect field experiences to future public health career goals.

PUBH 3990 Independent Study 1-6 Credits
Through individually designed projects or activities, students work with a faculty member to study a specific area in depth. Enrollment by permission only.

PUBH 4301 Leadership for Interdisciplinary Health Professionals 3 Credits
Prerequisite(s): Junior or Senior Standing.
This course is designed to expose students in the fields of public health and social work to conceptual frameworks through which to view leadership. Students will explore the key values and personal attributes that guide the leadership process. Students will engage in dynamic exercises and collaborative work to better understand leadership principles and work to apply these concepts to communities in their fields of study. Students will have the opportunity to reflect on leadership qualities relevant to their profession as well as personal leadership qualities that guide the relationship with vulnerable populations.

PUBH 4305 Public Health Seminar 3 Credits
Prerequisite(s): Senior Standing.
This course allows students to think strategically about their career in public health. The course comprehensively covers the responsibilities, obligations, roles, and professional activities of various public health roles in the community. Students will prepare for their senior internship experience, including resume development and interview practice, and for their capstone experience through research critiques and citation review. Various forms for professional communications will be practiced and critiqued.

PUBH 4999 Public Health Capstone 3 Credits
Prerequisite(s): Senior Standing.
This capstone course provides an opportunity for students to integrate and apply the knowledge and skills they've gained throughout the program by completing an independent scholarly or applied project. With guidance from a faculty member, students will develop and evaluate a public health intervention or design and carry out an original research project. The capstone will culminate with a written paper, poster, and oral presentation.

PUBH 5101 Foundations of Public Health 3 Credits
This course is designed to introduce graduate students without a baccalaureate degree in Public Health to the profession and sciences of Public Health. This course will provide an overview of the history and philosophy of Public Health, its core functions and essential services, and its role in understanding and promoting human health.

PUBH 5201 Environmental Health 3 Credits
This course introduces students to both fundamental and technical concepts in the field of environmental health. Environmental health supports clean water, sewage, food, and waste disposal. The course will help students understand the impact of environmental factors on health outcomes, the measures taken to minimize negative effects, and where to access additional information to make a difference at the individual and community levels. The course will also delve into interdisciplinary public health issues such as physical and chemical exposures; environmental justice; environmental policy, regulations, and ethics; risk assessment and management, and climate change.

PUBH 5303 Program Planning and Evaluation 3 Credits
This course prepares students to develop, implement, and evaluate Public Health programs and interventions. Students will learn to conduct a community health needs assessment; prioritize health needs; select appropriate intervention strategies; and develop program goals, objectives, and evaluation plans.

PUBH 6601 Epidemiology and Biostatistics I 3 Credits
This course presents epidemiologic principles and biostatistical methods essential to health research and practice. Data from a variety of public health research studies will be used to draw inferences about the health status of populations (e.g. identify patterns, determinants, and disparities in health outcomes). Biostatistical techniques are used to examine relationships among contributing factors for population health in order to plan and evaluate health services and programs. Epidemiological methods for conducting studies will be discussed in detail, with an emphasis on group and population methods used to inform evidence-based health decision-making, program planning, and policy development. Ethical issues related to the application of biostatistics and data privacy, such as IRB requirements, genomics, population genetics, clinical trials, and public health epidemiological studies are addressed.

PUBH 6602 Epidemiology and Biostatistics II 3 Credits
Prerequisite(s): PUBH 6601.
This course provides an introduction to statistical reasoning and procedures used in Public Health research. Probability theory, descriptive and inferential statistics, and regression and correlation methods will be covered, with applications using statistical software. Student must be enrolled in Master's or Doctorate of Public Health Program.

PUBH 6608 Research Methods for Public Health and Practice 3 Credits
The purpose of this course is to provide the student with the skills needed to develop a public health research study proposal. This course prepares the student to identify population health issues and critically evaluate existing research for relevance and application to public health practice. An overview of theory is presented as a vehicle for understanding public health or healthcare research. Basic concepts of research methods will be examined in order to plan and evaluate public health programs, policies, and system-level changes. Using an evidence-based and/or research approach, students identify a public health problem within a specific community or population, considering ethical principles such as equity, community participation, and protection of human subjects. Students use reflection in the evaluation of public health research.

PUBH 6610 Qualitative Research Methods 3 Credits
Prerequisite(s): PUBH 6608.
The course explores key qualitative approaches, including case studies, ethnography, grounded theory, narrative research, and phenomenology. Qualitative research seeks to understand the "whole person" and their lived experiences, emphasizing the interpretation and meaning of social phenomena, behaviors, and populations that are not easily measured or quantified. The foundations of qualitative research methods, including IRB requirements, will be discussed in detail. Students will be introduced to a range of data collection techniques such as focus groups, interviews (including open-ended, semi-structured, and in-depth formats), observation, and document review. The course emphasizes building foundational knowledge, practical skills, and critical understanding of qualitative research in public health.

PUBH 6951 Public Health Fieldwork Experience Seminar 6 Credits
The fieldwork experience provides each student the opportunity to demonstrate attainment of key program competencies by completing training and practice with a partner agency in their local area. Students will participate in health leadership and seminar while completing their fieldwork experience. This course will fulfill the applied practice experience requirement of the MPH program.

PUBH 6961 Public Health Capstone I 3 Credits
Prerequisite(s): PUBH 6601, PUBH 6602.
The capstone provides an opportunity for students to integrate and apply the knowledge and skills they've gained throughout the program by developing an independent scholarly or applied project. With guidance from a faculty member, students will create and evaluate a public health intervention or design and carry out an original research project. In Public Health Capstone I, students develop a detailed plan and written proposal for their project. This course will fulfill the integrative learning experience requirement of the MPH program.

PUBH 6962 Public Health Capstone II 3 Credits
Prerequisite(s): PUBH 6961.
This course is a continuation of Public Health Capstone I. In this course, students complete their capstone projects, by implementing and evaluating the program they created or by collecting and analyzing data to answer an original research question. Students will produce a final paper and presentation for their project. This course will fulfill the integrative learning experience requirement of the MPH program.

PUBH 6990 Independent Study 3 Credits
Through individually designed projects or activities, students work with a faculty member to study a specific area in depth. Enrollment by permission only.

PUBH 7001 Advanced Research Methods in Public Health 3 Credits
This doctoral-level course provides an in-depth exploration of research methodologies (including qualitative, quantitative, mixed methods, and policy analysis) used to address complex public health issues, from the individual to entire populations. Students will learn how to design and implement research and evaluation projects tailored to specific public health challenges, such as infectious disease outbreaks and management of chronic health conditions, while critically assessing the use of surveillance systems and national surveys. The course emphasizes the integration of theory and practice, evaluating the health policies and programs intended to address public health issues.

PUBH 7002 Leadership and Collaboration in Public Health 3 Credits
This doctoral-level course focuses on developing leadership and collaboration skills to drive health improvements and address health inequities. Students will learn strategies for effectively engaging diverse partners—such as researchers, practitioners, and community leaders—to foster partnerships that support public health initiatives. Emphasis will be placed on communication techniques that influence public behavior and policies across varying levels of health literacy. Additionally, the course explores the integration of multidisciplinary approaches and values from various professions and systems to comprehensively address public health challenges.

PUBH 7003 Strategic Leadership and Organizational Change in Public Health 3 Credits
This doctoral-level course is designed to develop advanced skills in strategic planning, decision-making, and organizational change within public health contexts. Students will learn to create comprehensive strategic plans that address public health priorities, while employing negotiation and consensus-building techniques to facilitate shared decision-making among partners. The course will also focus on the development of organizational change strategies to ensure effective implementation of public health initiatives and long-term improvements.

PUBH 7004 Inclusive Leadership and Resource Management in Public Health 3 Credits
This doctoral-level course explores strategies for promoting inclusion and equity within public health programs, policies, and systems, while emphasizing the importance of self-assessment in leadership development. Students will learn to critically assess their leadership strengths and weaknesses, including cultural proficiency, and propose effective human and fiscal resource plans to meet strategic public health goals. This course will also address the importance of DEIJ initiatives within the public health sphere. The course also provides practical approaches to cultivating new resources and revenue streams to sustain and advance public health initiatives.

PUBH 7005 Systems Interventions and Policy Design in Public Health 3 Credits
This doctoral-level course focuses on designing and implementing system-level interventions to tackle complex public health issues. Students will learn to integrate cultural values and practices into the development of inclusive public health policies and programs. The course also emphasizes the incorporation of scientific information, ethical frameworks, legal and regulatory considerations, and diverse stakeholder interests in policy analysis and development. Additionally, students will explore interprofessional approaches to fostering collaboration among teams to enhance public health outcomes.

PUBH 7006 Public Health Education and Training Stratgies 3 Credits
This doctoral-level course is designed to develop advanced skills in assessing educational needs and delivering effective training experiences within academic, organizational, and community settings. Students will learn to evaluate an audience's knowledge and learning needs to design tailored educational programs that promote engagement and understanding. The course also emphasizes the use of best practices and evidence-based pedagogical techniques to ensure high-quality learning experiences across diverse public health environments.

PUBH 7007 Data Visualization and Communication for Public Health Impact 3 Credits
This doctoral-level course focuses on developing advanced skills in data visualization and communication to effectively present public health data and evaluation findings. Students will learn to use visualization techniques to translate complex qualitative and quantitative data into clear, compelling narratives tailored to diverse audiences, including policymakers, practitioners, grant funders, partners, and the public. The course emphasizes the role of visual storytelling in communicating the impact and effectiveness of public health programs and policies, ensuring that students are equipped to convey critical insights and drive informed decision-making.

PUBH 7008 Advanced Implementation Science in Public Health 3 Credits
This doctoral-level course focuses on advanced principles and frameworks in implementation science, guiding students through the process of translating evidence-based public health interventions into practice. Students will explore strategies to identify and address barriers to the adoption, scaling, and sustainability of interventions in diverse public health settings. Emphasis will be placed on evaluating implementation outcomes, such as fidelity and reach, to assess the effectiveness of interventions in real-world contexts.

PUBH 7009 Applied Ethics in Public Health Practice and Policy 3 Credits
This doctoral-level course explores the application of ethical principles in public health practice, research, and policy development. Students will critically analyze complex ethical dilemmas related to health equity, resource allocation, privacy, and community engagement, with a focus on real-world case studies. The course emphasizes the role of ethics in decision-making processes and challenges students to apply ethical frameworks to contemporary public health issues, including global health, infectious disease control, and health inequities.

PUBH 7602 Advanced Epidemiology and Biostatistics 3 Credits
Prerequisite(s): NURS 7601.
This course provides an introduction to statistical reasoning and procedures used in Public Health research. Probability theory, descriptive and inferential statistics, and regression and correlation methods will be covered, with applications using statistical software.

PUBH 7901 Public Health Doctoral Residency 0 Credits
This residency course is designed to foster the professional and academic development of doctoral students in public health, with an emphasis on preparing for dissertation research and equipping students with the skills necessary for successful careers in academia, practice, and policy. The course provides a comprehensive framework for the transition from coursework to independent research, incorporating case studies, guest speakers, and community-engaged learning experiences with public health partners. As a zero-credit course, it is a required component of the program, to be completed three times during the doctoral journey. Class is graded pass/fail.

PUBH 7902 Public Health Doctoral Professional Development 0 Credits
This zero-credit, mandatory course is designed to ensure that doctoral students in public health engage in continuous professional development throughout their academic journey. The course requires students to complete a minimum of 20 continuing education hours beyond their regular coursework, focusing on advanced topics, emerging trends, and skills essential for their professional growth. The course needs to be repeated twice in the final year of study, each time participating in different professional development activities such as conferences, workshops, seminars, or specialized training sessions. Students are expected to provide documentation and reflection of the learning experiences. The course needs to be repeated twice in the final year of study. Class is graded pass/fail.

PUBH 7950 Teaching Practica in Public Health 3 Credits
This course provides doctoral students in public health the opportunity to develop and enhance their teaching skills through guided practice under the mentorship of a faculty member. Students will engage in curriculum design, lecture preparation, instructional delivery, and assessment development for undergraduate or graduate-level courses. Throughout the practicum, students will receive feedback on their teaching methods, classroom management, and student engagement techniques. The course emphasizes reflective practice, pedagogical strategies, and the adaptation of content to diverse learning styles and educational settings.

PUBH 7971 Public Health Doctoral Dissertation Proposal Development 2 Credits
This course guides doctoral students through the development of their dissertation proposal, focusing on designing a research project that contributes original knowledge to the field of public health, specifically but not limited to policies, programs or systems that address public health. Students will refine their research questions, review relevant literature, and develop a comprehensive methodology that aligns with their research objectives. Emphasis will be placed on crafting a robust proposal that addresses gaps in the literature and adheres to ethical and methodological standards. By the end of the course, students will submit a well-developed dissertation proposal for approval by their dissertation committee. PUBH 7971, PUBH 7972, and PUBH 7973 satisfy the program's integrative learning experience requirement. Class is graded pass/fail.

PUBH 7972 Public Health Doctoral Dissertation Research and Data Collection 3 Credits
Prerequisite(s): PUBH 7971.
This course builds on the dissertation proposal developed in the Public Health Doctoral Dissertation Proposal Development (PUBH 7971) course. In this course, doctoral students will conduct the research outlined in their approved dissertation proposals, focusing on data collection and preliminary analysis. Students will implement their research methodologies, collect data, and ensure adherence to ethical standards and research protocols. This course provides support and guidance on managing research activities, troubleshooting challenges, and maintaining data integrity. Students are expected to make significant progress in their research and prepare for the analysis phase of their dissertation work. PUBH 7971, PUBH 7972, and PUBH 7973 satisfy the program's integrative learning experience requirement. Class is graded pass/fail.

PUBH 7973 Public Health Doctoral Dissertation Writing and Defense 3 Credits
Prerequisite(s): PUBH 7972.
In the final course in the dissertation sequence, students will complete the dissertation proposal originally developed in the Public Health Doctoral Dissertation Proposal Development (PUBH 7971) course. This course supports doctoral students in writing and defending their dissertation, focusing on synthesizing research findings and preparing for the final oral defense. Students will complete their three dissertation manuscripts, incorporating feedback from their committee members and ensuring clarity, coherence, and scholarly rigor. The course includes workshops on dissertation writing, presentation skills, and strategies for a successful defense. Students will schedule and conduct their dissertation defense, demonstrating their ability to contribute original research to the field of public health and engaging in scholarly discussion with their committee. PUBH 7971, PUBH 7972, and PUBH 7973 satisfy the program's integrative learning experience requirement. Class is graded pass/fail.

PUBH 7974 Public Health Doctoral Dissertation Continuation 1 Credit
Prerequisite(s): PUBH 7973.
This course is designed to support doctoral students requiring additional time to complete any remaining stages of the dissertation process, such as finalizing data collection, conducting analyses, synthesizing findings, or preparing for the oral defense. The course offers structured guidance from the dissertation committee to ensure that students maintain steady progress, uphold ethical standards in research, and resolve any challenges encountered in their work. Regular check-ins, goal setting, and feedback sessions will help students focus on specific aspects of their dissertation in need of refinement. Enrollment in Dissertation Continuation is on a semester-by-semester basis until the requirements are met for PUBH 7971, PUBH 7972, and/or PUBH 7973. This course is graded as pass/fail.

PUBH 7980 Public Health Doctoral Applied Practice Experience 1 Credit
This doctoral-level course provides students with a practice experience, regardless of prior professional background, in which they complete one or more projects that contribute meaningfully to an organization and demonstrate advanced public health practice. Students will integrate theory into real-world applications by collaborating with external organizations such as governmental, non-profit, for-profit, and industrial settings. Each student will produce a work product that reflects a depth of competence and includes a reflective component, allowing for personal and professional insights into the experience as well as providing the student to develop leadership skills. This course satisfies the program's applied practice experience requirement. Class is graded pass/fail.

PUBH 7990 Independent Study in Public Health 3 Credits
Through individually designed projects or activities, students work with a faculty member to study a specific area in depth. Enrollment by permission only.

Reading and Language Development (RLDV)

RLDV 5486 Foundations of Language and Literacy: Principles and Practices of Evidence-Based Literacy Instruction 3 Credits
This course examines the foundational concepts, theories, and empirical research explaining how oral language supports the development of accurate and fluent word reading. Candidates analyze the relationships among phonological, orthographic, and morphological systems and their collective role in shaping word recognition, decoding, and spelling development. Key topics include phonological and phonemic awareness, the alphabetic principle, orthographic mapping, and reading fluency. Emphasis is placed on understanding how these skills interact during reading acquisition and how weaknesses in each area contribute to reading difficulties and dyslexia. Candidates learn to interpret data from state-approved and research-based assessments and to select and implement evidence-based instructional routines that strengthen decoding, word recognition, and fluency for beginning and struggling readers. Cross-listed with SPED 5486.

RLDV 5487 Developmental Literacy II: Essentials of Vocabulary and Text Comprehension 3 Credits
This course addresses 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 and routines to develop students' reading skills in the areas of vocabulary and comprehension. Crosslisted with SPED 5487.

RLDV 5488 Collaborative Approaches to Disciplinary Literary Instruction 3 Credits
This course prepares candidates to collaborate with classroom teachers to plan and deliver evidence-based disciplinary literacy instruction that supports diverse learners, including students at risk for and with learning and language-based disabilities. Candidates apply evidence-based instructional practices, strategies, and routines to strengthen the comprehension strand of reading, including vocabulary, background knowledge, syntax, text structure, and written expression, within content-area instruction across grade levels. Emphasis is placed on co-planning, co-teaching, and progress-monitoring practices that embed explicit comprehension, vocabulary, and writing routines into mathematics, science, social studies, and English language arts classrooms. Candidates learn to adapt instruction based on diagnostic and formative data, promote accessibility for multilingual learners and students with disabilities, and foster a shared professional responsibility for equitable literacy outcomes across disciplines.

RLDV 5489 Principles and Practices of Structured Literacy 3 Credits
This course introduces candidates to the principles and practices of Structured Literacy and prepares candidates to deliver reading and writing instruction from a systematic, explicit orientation. In this hands-on class, candidates are introduced to high-impact instructional routines, student-centered activities, and lesson planning and delivery conventions aligned with the essential components of reading. Crosslisted with SPED 5489.

RLDV 5583 Tests, Measurement, and Diagnostic Procedures for Educational and Instructional Decision-Making 3 Credits
This course introduces candidates to the principles and practices of tests and measurement as applied to comprehensive multidisciplinary evaluations in general and special education. Candidates study the types and purposes of assessment, including universal screeners, progress-monitoring tools, standardized tests, curriculum-based measures, and diagnostic assessments of cognitive, academic, and behavioral functioning. Emphasis is placed on the foundations of test construction, administration, scoring, and interpretation, with attention to reliability, validity, standardization, scaling, and fairness. Through applied practice, candidates learn to administer, score, and interpret a wide range of assessments to support diagnostic decision-making, eligibility determinations, and instructional planning within multi-tiered systems of support (RTI/MTSS) and special education. Cross-listed with SPED 6561.

RLDV 5584 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.

RLDV 5585 Curriculum and Methods for Diverse Learners 3 Credits
This course examines curriculum as the organized framework of standards, content, instructional methods, materials, and assessments that guide teaching and learning across academic domains, including Language Arts and Math. Candidates learn how to evaluate instructional programs and materials for alignment with research-based and High Leverage Practices, and to modify curriculum, as needed, to address students' unique learning needs. Candidates are taught to develop systematic and explicit lessons that reflect the gradual release model, and how to select and implement accommodations and modifications that promote access and expression for diverse learners in remedial, inclusive, and special education settings . Cross-listed with SPED 6537.

RLDV 6503 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 EDTC 6503.

RLDV 6530 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 TSLA 6530.

RLDV 6575 Wilson Reading: Developmental Literacy Remediation Practices for Students in Grades 3+ 1 Credit
This course examines reading research and the five essential components of reading in relation to students in Grade 3+ with persistent phonological coding deficits. Candidates will learn about the principles and practices of Structured Literacy and multi-sensory language instruction through study of the Wilson Reading System (WRS), including student identification and placement, program implementation, progress monitoring, scheduling, creating a successful classroom environment, principles of language structure, and how to teach language with direct, multi-sensory methods. This course is offered online. Crosslisted with SPED 6575.

RLDV 6576 Wilson Reading: Intensive Instruction I for the Non-Responsive Reader, Steps 1-6 3 Credits
Corequisite(s): RLDV 6577.
Prerequisite(s): RLDV 6575.
This course presents in detail how the principles and practices of multi-sensory, structured language instruction are applied to support the remedial reading needs of students with word-level deficits in Grades 3+ who have not adequately responded to intervention. This course features practical application of reading research, with particular emphasis on phonological awareness, phonics and spelling at the beginning levels of decoding and encoding. It also provided specific procedures to teach the following syllable types: closed, vowel-consonant-e, open, and consonant-le. The course includes additional topics on diagnostic teaching and differentiating instruction, program pacing, high frequency word instruction, vocabulary instruction, fluency instruction, dyslexia, listening and reading comprehension strategies, use of differentiated texts, and handwriting. Candidates explore the above in relation to Steps 1-6 of the Wilson Reading System (WRS). This course is offered online. Crosslisted with SPED 6576.

RLDV 6577 Wilson Reading: Practicum I for the Non-Responsive Reader in Grades 3+, Steps 1-6 1.5-3 Credits
Corequisite(s): RLDV 6576.
Prerequisite(s): RLDV 6575.
This supervised practicum experience prepares candidates to effectively implement a multi-sensory structured language reading program with students in Grades 3-12 that present with significant word-level reading and spelling deficits, including those diagnosed with a language-based learning disability or dyslexia. Candidates will acquire a sophisticated working knowledge of the sound-symbol system of English (phonology) and its structure (morphology) as well as the use of specific diagnostic methods in teaching reading and spelling. This Wilson Reading System Steps 1-6 web-based practicum is supervised by a Wilson Credentialed Trainer. This course is offered online. Crosslisted with SPED 6577.

RLDV 6578 Wilson Reading: Intensive Instruction II for the Non-Responsive Reader, Steps 1-6 3 Credits
Corequisite(s): RLDV 6579.
Prerequisite(s): RLDV 6576.
This course is a continuation of RLD 0576 and presents in detail how the principles and practices of multi-sensory structured language instruction are applied to support the remedial reading needs of students with word-level deficits in Grades 3+ who have not adequately responded to intervention. This course features practical application of reading research, and expands upon the topics of phonological awareness, phonics and spelling at the beginning levels of decoding and encoding. It also provides additional opportunities to refine procedural skill associated with teaching the following syllable types: closed, vowel-consonant-e, open, and consonant-le. The course includes additional topics on diagnostic teaching and differentiating instruction, program pacing, high frequency word instruction, vocabulary instruction, fluency instruction, dyslexia, listening and reading comprehension strategies, use of differentiated texts, and handwriting. Candidates explore the above in relation to Steps 1-6 of the Wilson Reading System (WRS). This course is offered online. Crosslisted with SPED 6578.

RLDV 6579 Wilson Reading: Practicum II for the Non-Responsive Reader in Grades 3+, Steps 1-6 1.5-3 Credits
Corequisite(s): RLDV 6578.
Prerequisite(s): RLDV 6576.
This supervised practicum experience is a continuation of RLDV 6577 and prepares candidates to effectively implement a multi-sensory structured language reading program with students in Grades 3-12 that present with significant word-level reading and spelling deficits, including those diagnosed with a language-based learning disability or dyslexia. Candidates will acquire a sophisticated working knowledge of the sound-symbol system of English (phonology) and its structure (morphology) as well as the use of specific diagnostic methods in teaching reading and spelling. This Wilson Reading System Steps 1-6 web-based practicum is supervised by a Wilson Credentialed Trainer. This course is offered online. Crosslisted with SPED 6579.

RLDV 6586 Practicum in the Diagnosis and Remediation of Reading and Writing Disabilities 3 Credits
This advanced clinical practicum prepares candidates to conduct comprehensive diagnostic evaluations and to design evidence-based intervention plans for students with reading and written language disabilities, including dyslexia and related learning disorders. Under close faculty supervision, candidates administer, score, analyze, and interpret a range of individually administered diagnostic instruments assessing decoding, fluency, comprehension, spelling, written expression, and the underlying cognitive and linguistic processes that support literacy development. Each candidate evaluates one student in Grades 1–12 referred for reading or writing assessment and produces a professional, integrative case report. The final diagnostic report and parent presentation address referral questions related to differential diagnosis and educational programming, include sample IEP goals and objectives, and offer instructional, environmental, and assistive-technology recommendations for consideration by the student's educational team.

RLDV 6900 Special Topics (Shell) 1.5-3 Credits
This course explores advanced topics in the field of reading and language development. Topics vary each semester and are determined by the faculty as a reflection of pertinent themes of interest in the field.

RLDV 6951 Supervised Practicum in Structured Literacy and Dyslexia Intervention 3-6 Credits
Prerequisite(s): Instructor Permission.
This supervised clinical practicum provides candidates with an intensive opportunity to apply a diagnostic-prescriptive approach to planning, implementing, and evaluating the efficacy of intensive, individualized reading and writing interventions for students with profiles characteristic of, or diagnoses of, dyslexia. Candidates conduct a literacy screening assessment and collaborate with faculty to develop an individualized instructional plan and progress-monitoring framework aligned to each student's strengths and areas of need, design an instructional scope and sequence, set measurable practicum goals, and implement a series of diagnostic-prescriptive lessons that explicitly address phonological awareness, decoding, spelling, fluency, comprehension, and written expression using evidence-based reading and writing practices, strategies, and routines. Candidates maintain detailed lesson records, monitor student progress using curriculum-based and diagnostic measures, and adjust instruction based on data trends. Faculty provide remote supervision and individualized feedback through scheduled video observations and conferencing sessions. The practicum culminates in a formal case presentation in which candidates synthesize assessment data, document student growth, and articulate recommendations and sample IEP goals and objectives for continued intervention. Crosslisted with SPED 6951.

RLDV 6952 Clinical Practicum: Structured Literacy Applications with Peer Coaching Elements 3-6 Credits
Prerequisite(s): RLDV 6951.
Candidates in this course apply their knowledge of assessment and structured literacy remediation practices to plan, deliver, monitor, and evaluate the impact of 1:1 remedial reading interventions provided to an approved student in the context of a supervised off-site clinical practicum experience and engage in a series of coaching observation and feedback cycles with an assigned peer. A remote practicum supervision and coaching platform is utilized.

RLDV 6990 Independent Study 1-3 Credits
This course is available to candidates who are slated to graduate but have an outstanding required course that is not scheduled to be offered during the present term, and to candidates who wish to pursue focused study in an area associated with remedial reading that is not offered through the RLD program or through the broader Fairfield University curriculum. Enrollment by permission only.

RLDV 6999 Capstone Seminar: Designing, Implementing, and Leading the School Literacy Intervention Program 3 Credits
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.

Religious Studies (RLST)

RLST 1001 Religion and the Critical Mind 3 Credits
Course Tags: Educational Studies Cognate, Religious Studies Major Track
This course 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.

RLST 1002 Common Questions, Traditional Response 3 Credits
Course Tags: Catholic Studies: Religious Studies, Religious Studies Major Track
This course 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.

RLST 1003 Religion in a Comparative Key 3 Credits
Course Tags: Religious Studies Major Track
This course 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.

RLST 1004 Peoples of the Book, Sacred Texts, and Their Communities 3 Credits
Course Tags: Catholic Studies: Religious Studies, Judaic Studies Minor, Religious Studies Major Track
This course 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.

RLST 1060 Magic and Religion 3 Credits
Course Tags: Religious Studies Major Track
This course is an introduction to magic, its academic study, and its practice across different religions. We will look critically at early scholarship that theorized about the nature of magic, seen as the irrational practice of “primitives;” and from there explore contemporary approaches that focus instead on individual magical practices within their specific cultures without value judgements. We will study specific cases of magic’s place in the “rational” West and how it has also formed part of different “World Religions.” We will conclude by exploring the ways in which magical practices exist even today in the digital age.

RLST 1091 Introduction to Africana Religions 3 Credits
Course Tags: Religious Studies Major Track
This course introduces several African-Diaspora religions like Haitian Vodou that developed when the enslaved creatively adapted their African traditions to the Americas; as well as with those African religions from where they derived. Importantly, it will challenge the centuries-old demonization and persecution of these traditions. Furthermore, it will explore how in the last decades, Africana religions have been reclaimed by Black and Brown communities in the US looking for a decolonized spirituality as part of a greater movement towards liberation; and also, how they have jumped from necessary secretness unto the public sphere, even being embraced by celebrities like Beyoncé.

RLST 1101 Introduction to Judaism 3 Credits
Course Tags: Judaic Studies Minor, Religious Studies Major Track
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.

RLST 1111 History of the Jewish Experience 3 Credits
Course Tags: Judaic Studies Minor, Religious Studies Major Track
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.

RLST 1122 Social Justice in the Jewish World 3 Credits
Course Tags: Judaic Studies Minor, Religious Studies Major Track
What does social justice mean within the Jewish world, and how has this meaning evolved from biblical times to the present? This course explores the ways Jews have understood, debated, and practiced social justice across history - from charitable giving and communal welfare in traditional societies to modern activism in Israel and the Diaspora. Drawing on religious texts, historical documents, and contemporary case studies, we will trace how Jewish communities have responded to inequality and injustice, and how Jewish values have inspired broader movements for social change.

RLST 1201 Hebrew Bible/Old Testament 3 Credits
Course Tags: Judaic Studies Minor, Religious Studies Major Track
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.

RLST 1203 Life of Jesus 3 Credits
Course Tags: Catholic Studies: Religious Studies, Religious Studies Major Track, Religious Studies Theology Track
This course explores the life, ministry, and teachings of Jesus of Nazareth, the founder of Christianity and one of the most influential people ever to have lived. The course will examine Jesus through a critical analysis of the earliest accounts of his life while also consulting modern scholarly reconstructions.

RLST 1211 Introduction to the New Testament 3 Credits
Course Tags: Catholic Studies: Religious Studies, Religious Studies Major Track, Religious Studies Theology Track
This course introduces students to the text of the New Testament and its central themes regarding Jesus, his teachings, and the writings attributed to his disciples. As students read the New Testament, they will also engage with critical questions surrounding its composition, authorship, and reception, as well as other issues such as the canonization of the New Testament, extra-New Testament texts, interpretive strategies, and various matters involving the New Testament and race, sexuality, slavery, and gender.

RLST 1251 Heroes and Villains in the Biblical Tradition 3 Credits
Course Tags: Religious Studies Major Track, Religious Studies Theology Track
This course will critically examine the narratives of major figures that appear in both Jewish and Christian Bibles by studying them in their own historical context and pondering their ethical relevance to the modern world. The biblical texts themselves will be employed as primary sources for considering biblical notions of virtue and vice. The historicity, personality, and motivations of biblical protagonists and antagonists will be evaluated as reflections of the values of scriptural authors.

RLST 1270 Qur'an as Scripture and Experience 3 Credits
Course Tags: Islamic World Studies: Humanities, Religious Studies Theology Track
This course provides students with an introductory survey to the Islamic scripture of the Qur'an, its socio-historical context, and its ongoing legacy within the wider Muslim world. Through close readings of the Qur'an and religious accounts of the Prophet Muhammad's life, students will explore the nature of revelation and prophetic authority in Islam. Furthermore, students will critically examine the nature of interpretation and the problems of authoritativeness, recognizing the importance of these issues for other religious traditions as well.

RLST 1402 Introduction to Catholicism 3 Credits
Course Tags: Catholic Studies: Religious Studies, Religious Studies Major Track
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.

RLST 1501 Introduction to Christian Ethics 3 Credits
Course Tags: Catholic Studies: Religious Studies, Religious Studies Theology Track
What is ethics? How does Christian faith and practice inform moral discernment? This course examines the discipline of Christian Ethics through a consideration of the sources and frameworks Christian ethicists use to make ethical arguments in a theological key. Major Christian moral traditions and key contributions will be discussed, such as Catholic social teaching, liberation ethics, and the contemporary return to virtue, as will perennial tensions in Christian ethics such as those between love and justice, individual and collective responsibility, and actions and intentions. By placing the course material in conversation with case studies and students' own moral questions, this course aims to foster ethical awareness that students can bring to a variety of moral challenges within their individual lives, professional contexts, and as engaged citizens in society.

RLST 1601 Religion in the United States 3 Credits
Course Tags: American Studies: Gateway, American Studies: Religion, Catholic Studies: Religious Studies, Diversity, Equality, and Inclusion Minor Elective, Educational Studies Cognate, Religious Studies Major Track
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.

RLST 1610 Faith and Doubt in Healthcare 3 Credits
Why do some Americans trust in biomedical doctors to treat their illnesses, while others question or denounce them entirely? What does it mean to have faith, doubt (or both) in medicine today? This course provides varied approaches understanding current debates concerning public health, vaccine hesitancy, faith healing, and wellness culture. Students craft nuanced viewpoints on complex topics that are relevant in our society today and explore how religious, gender, and racial identities affect willingness to have faith in Western medical treatment or alternative medical authority.

RLST 1667 Mormonism: An American Church 3 Credits
Course Tags: American Studies: Religion, Religious Studies Major Track
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 combated negative perceptions and adapted in order to survive, and ultimately thrive.

RLST 1701 Introduction to Islam 3 Credits
Course Tags: International Studies Elective, Islamic World Studies: Humanities, Religious Studies Theology Track
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.

RLST 1709 Religious Dimensions of Malcolm X 3 Credits
Course Tags: Islamic World Studies: Humanities
This course surveys the life, work, and legacy of Malcolm X through the lens of religion. Students will study Malcolm X through a variety of disciplines, especially religious studies and theology. While Malcolm's life serves as the central pillar of the course, time is also spent exploring other lives and movements that emerged alongside Malcolm as well as those influenced by him in later generations. The role and place of religion is examined intersectionally as it relates to questions of power, race, gender, geography, capitalism, colonialism, social justice, and forms of resistance, with race serving as a throughline of concern.

RLST 1801 Asian Religions 3 Credits
Course Tags: Asian Studies Elective, Diversity, Equality, and Inclusion Minor Elective, International Studies Elective, Religious Studies Major Track
This course 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.

RLST 1802 Buddhism 3 Credits
Course Tags: Asian Studies Elective, International Studies Elective, Religious Studies Major Track
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.

RLST 2099 Religious Studies Seminar 3 Credits
Prerequisite(s): One 1000-level religious studies course.
This seminar offers an in-depth investigation of a significant figure, issue, or problem in religious studies. Enrollment by permission only.

RLST 2113 Jews and Judaism in America 3 Credits
Course Tags: American Studies Upper Level, Judaic Studies Minor, Religious Studies Major Track
Prerequisite(s): One 1000-level religious studies course.
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.

RLST 2115 Women in Judaism 3 Credits
Course Tags: Judaic Studies Minor, Religious Studies Major Track, Women, Gender, and Sexuality Studies: Gender Focused
Prerequisite(s): One 1000-level religious studies course.
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.

RLST 2117 The Literature of Jewish Modernity 3 Credits
Course Tags: Judaic Studies Minor, Religious Studies Major Track
Prerequisite(s): Any 1000 level RLST course.
As Jews were emancipated in Europe and freed from the "ghetto," some began to grapple with the challenges of modernity through literary genres like poetry and fiction; others through more traditionalist genres. Either way, the path of the modern Jewish writer seemed to entail a good deal alienation, nostalgia, and regret, as well as the need to contend with increasingly virulent forms of anti-Semitism, culminating in the Holocaust. Despite the tension and anguish we will discover works of beauty and poignancy that yield profound insights into the modern experience.

RLST 2118 Faith After the Holocaust 3 Credits
Course Tags: Judaic Studies Minor, Peace and Justice Studies, Religious Studies Major Track, Religious Studies Theology Track
Prerequisite(s): One 1000-level religious studies course.
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?

RLST 2119 Zionism and its Critics: Religion, Nationalism, and Violence 3 Credits
Zionism- an ideology for Jewish national self-determination- has assumed many forms and ignited much controversy, not least among those who are displaced and subjugated. We draw on historical, literary, and religious sources to explore the origins, development, and realization of Zionism, as well as cogent criticisms from both within and outside the Jewish community, especially by Palestinians and Hasidim. The religious foundations of claims and counter-claims underpin our discussions of one of the most fraught controversies of our time. An effort is made to listen to as many perspectives as possible in a way that is both empathetic and dispassionate.

RLST 2120 Modern Jewish Theology 3 Credits
Course Tags: Judaic Studies Minor, Religious Studies Theology Track
Prerequisite(s): One 1000-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-Century 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.

RLST 2121 Jewish Creativity and Innovation: Thinking Outside the Box 3 Credits
Course Tags: Judaic Studies Minor, Religious Studies Major Track
This course explores the history and practice of unconventional thinking within the Jewish tradition. It examines why and how individuals and societies challenge norms; break boundaries, and innovate within - and sometimes against - their cultural and religious frameworks. We will look at ancient biblical figures and modern innovators, tracing how generations of Jews developed creative strategies for survival, adaption, and influence. Through readings, discussions, and hands-on exercises, you will learn to identify what enables or limits original thought in different cultural settings and to experiment with your own ways of thinking unconventionally.

RLST 2150 Second Temple Judaism and the Dead Sea Scrolls 3 Credits
Course Tags: Judaic Studies Minor
Prerequisite(s): One 1000-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 archaeology of the Dead Sea Scrolls will begin with a study of the Second Temple Period (520 BCE through 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.

RLST 2155 Jewish Mysticism 3 Credits
Course Tags: Judaic Studies Minor, Religious Studies Major Track
Prerequisite(s): Any 1000 level RLST course.
This course traces Jewish mysticism from antiquity through modernity. Beginning with early mysticism in the Bible, we proceed through early Jewish practices of divination, magic, and asceticism. We then delve into the erotically-charged symbolic literature known as "Kabbalah", focusing on the classic Zohar (Book of Splendor); mystical ethics early modern Safed (Tzefat); and mass messianic movements. Next, we explore varied manifestations of East European popular Kabbalah, including the magic-based praxis, Golem literature, and Hasidism. We conclude with contemporary manifestations of Kabbalah and Hasidism in America and Israel, reflecting on issues like gender, sectarianism, mystical-messianic Zionism, and the popularization of Kabbalah.

RLST 2205 Women in the Bible 3 Credits
Course Tags: Judaic Studies Minor, Religious Studies Major Track, Women, Gender, and Sexuality Studies: Gender Focused
Prerequisite(s): One 1000-level religious studies course.
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.

RLST 2207 Prophetic and Apocalyptic Voices 3 Credits
Course Tags: Religious Studies Major Track
Prerequisite(s): One 1000-level religious studies course.
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.

RLST 2208 Building Belief: Art and Ritual in the Greco-Roman Sanctuary 3 Credits
Course Tags: Graphic Design: Art History
This seminar introduces students to the advanced study of the classical sanctuary, contexts where ancient ritual, myth, and architecture came together to express the varied identities of the Greco-Roman past and present. The course will introduce students to seminal texts in the study of Greco-Roman religion, the evolution of Greek and Roman scared architecture, and the varied forms of religious expression that fall outside the worship of the traditional classical pantheon. Students will develop a research project over the course of the semester and develop skills used by field archaeologists.

RLST 2209 Jewish Interpretations of Scriptures 3 Credits
Course Tags: Judaic Studies Minor, Religious Studies Theology Track
Prerequisite(s): One 1000-level religious studies course.
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.

RLST 2210 A Feminist, Gender, and Queer Reading of the Hebrew Bible: Finding New Voices 3 Credits
Course Tags: Religious Studies Major Track, Religious Studies Theology Track, Women, Gender, and Sexuality Studies: Gender Focused
The Hebrew Bible/Old Testament engages the most profound questions of life, stories that are mysterious and surprising, full of twists of plot and revelation of character. We explore biblical stories through the experience of biblical figures such as Esther, Ruth, Joseph, and David. We discuss these stories through the lens of a feminist, gender, and queer theory approach to reading biblical texts. These powerful stories invite us to reflect on all voices in our community, particularly those who have been historically and culturally silenced, ignored, or eliminated. This class is aimed at finding and exploring these voices.

RLST 2220 Writings of Paul 3 Credits
Course Tags: Catholic Studies: Religious Studies, Religious Studies Major Track
Prerequisite(s): One 1000-level religious studies course.
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.

RLST 2221 Good News of the Gospels 3 Credits
Course Tags: Catholic Studies: Religious Studies, Religious Studies Major Track
Prerequisite(s): One 1000-level religious studies course.
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.

RLST 2222 Writings of John 3 Credits
Course Tags: Catholic Studies: Religious Studies, Religious Studies Major Track
Prerequisite(s): One 1000-level religious studies course.
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.

RLST 2331 The Problem of God 3 Credits
Course Tags: Catholic Studies: Religious Studies, Religious Studies Theology Track
Prerequisite(s): One 1000-level religious studies course.
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.

RLST 2335 Liberation Theology 3 Credits
Course Tags: Black Studies Focus Course, Catholic Studies: Religious Studies, Humanitarian Action Minor Skills/Method Course, International Studies Elective, Peace and Justice Studies, Religious Studies Theology Track
Prerequisite(s): One 1000-level religious studies course.
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 developing world theologies and on North American and European theological reflection. The course proceeds to a constructive proposal for a contemporary political theology.

RLST 2336 Catholicism and Gender 3 Credits
Course Tags: Catholic Studies: Religious Studies, Religious Studies Theology Track, Women, Gender, and Sexuality Studies: Gender Focused Course description: This course is an introduction to the issues that foregrounding a critical discussion of gender brings to the study of Christian, and particularly Catholic, theology. It is an investigation of both the elements of Catholic Christian theology and contemporary – often contested -- understandings of gender, asking how these two challenge one another. To do this we will trace the history of recent feminist theology, including critical insights from mujerista and womanist thinkers situated in the U.S., interleaving this with the more recent analyses of masculinity that address both the patriarchal tradition of Catholic Christianity and the feminist response.

RLST 2338 Evil 3 Credits
Course Tags: Catholic Studies: Religious Studies, Religious Studies Theology Track
Prerequisite(s): One 1000-level religious studies course.
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?

RLST 2339 Last Things: Catholic Belief in Life After Death 3 Credits
Course Tags: Catholic Studies: Religious Studies, Religious Studies Theology Track
Prerequisite(s): One 1000-level religious studies course.
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.

RLST 2340 Theological Anthropology 3 Credits
Anthropology in the scientia of theology strives to comprehend the human person in light of Revelation. Inherently humans are finite creatures oriented to the infinite. Nonetheless each person is radically free to reject or respond to God. The manifestation of the Absolute God does not occur in religious experience alone, but in a range of social-historical processes. Theological Anthropology holds that death is not destructive nor escape from the material, but death and resurrection are an opening between the finite and infinite. Unlike previous centuries, selfactualization is a major component of life. Most seek material success, yet have an unspoken longing for the Holy.

RLST 2428 Early Christianity 3 Credits
Course Tags: Catholic Studies: Religious Studies, Religious Studies Theology Track
Prerequisite(s): One 1000-level religious studies course.
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).

RLST 2430 Eastern Christianity: Europe, Africa, and Asia 3 Credits
Course Tags: Catholic Studies: Religious Studies, Religious Studies Major Track, Religious Studies Theology Track, Russian Studies Minor: Religious Studies
Prerequisite(s): One 1000-level religious studies course.
This course traces the ancient spread of Christianity in eastern Europe, Africa, Persia, India, and China between 200-1300 CE, a time long before modern European colonizing and missionary efforts. Topics that will be covered include the early history of eastern Christian communities, the schisms between western and eastern churches, the Crusades, the phenomenon of eastern Catholicism, and ancient Christian interactions with other religions such as Judaism, Islam, Manichaeism, Zoroastrianism, and Buddhism.

RLST 2440 The Medieval Church 3 Credits
Course Tags: Catholic Studies: Religious Studies, Religious Studies Major Track
Prerequisite(s): One 1000-level religious studies course.
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.

RLST 2441 God in Medieval Christian Thought 3 Credits
Course Tags: Catholic Studies: Religious Studies, Religious Studies Theology Track
Prerequisite(s): One 1000-level religious studies course.
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.

RLST 2443 The Papacy 3 Credits
Course Tags: Catholic Studies: Religious Studies, Italian Course Taught in English, Italian Studies: Elective, Italian Studies: Italy-Focused, Religious Studies Theology Track
Prerequisite(s): One 1000-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.

RLST 2445 The Reformation Era 3 Credits
Course Tags: Catholic Studies: Religious Studies, Religious Studies Major Track, Religious Studies Theology Track
Prerequisite(s): One 1000-level religious studies course.
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, Müntzer, 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 Counter-Reformation.

RLST 2448 Faith and Reason: The Catholic Intellectual Tradition 3 Credits
Course Tags: Religious Studies Theology Track
Prerequisite(s): One 1000-level religious studies course.
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.

RLST 2544 Finding God in All Things 3 Credits
Course Tags: Catholic Studies: Religious Studies, Religious Studies Theology Track
Prerequisite(s): One 1000-level religious studies course.
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.

RLST 2550 Catholic 2.0: Faith and Practice 3 Credits
Course Tags: Catholic Studies: Religious Studies, Religious Studies Theology Track
Prerequisite(s): One 1000-level religious studies course.
Opening with a discussion of the Triune God, and highlighting questions of social justice (gender, race, and class), this course offers a scholarly approach to key issues shaping the lives of adult Catholics. An in-depth study of the liturgy (and its inculturation) theologically grounds the entire course, enhanced by a consideration both Roman and Orthodox Catholic traditions. Students will use this foundation to examine the dynamism of faith, reason and contemporary science, the sacraments and rites surrounding marriage and the end of life, and the changing institutional role of the "site" of most adult catholic practice: the local parish.

RLST 2551 Christian Ecological Ethics 3 Credits
Course Tags: Religious Studies Major Track
Prerequisite(s): Any 1001 RLST level course.
This course introduces students to the field of Christian Ecological Ethics. Students will critically examine the historically fraught relationship between anthropocentric Christian theologies and human treatment of the natural environment and explore how Christian theologians and practitioners draw on resources from the Christian tradition to construct ethical responses to issues such as climate change and environmental justice. The course covers a range of Christian theological approaches to ecological ethics through engaging written texts and immersive media such as film, case studies, and opportunities for experiential learning.

RLST 2552 Contemporary Moral Problems 3 Credits
Course Tags: Catholic Studies: Religious Studies, Diversity, Equality, and Inclusion Minor Elective, Educational Studies Cognate, Religious Studies Theology Track
Prerequisite(s): One 1000-level religious studies course.
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.

RLST 2555 Catholic Social Teaching 3 Credits
Course Tags: Catholic Studies: Religious Studies, Diversity, Equality, and Inclusion Minor Elective, Peace and Justice Studies, Religious Studies Theology Track
Prerequisite(s): One 1000-level religious studies course.
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.

RLST 2556 Spirituality & Social Justice 3 Credits
Course Tags: Religious Studies Major Track
Embracing the Ignatian notion of becoming “contemplatives in action,” this course invites students to develop a concrete understanding of interlocking social injustices by studying the spiritual practices that sustain and motivate faith communities struggling for justice. We will focus on the housing crisis, ecological devastation, and war, exploring through an interdisciplinary lens how spirituality enables practitioners to see the realities of the world (contemplation) and strive to transform them (action). The Benincasa Community in Guilford, a group of lay Catholics guided by the pillars of contemplation, learning, activism/service, and right relationship, will be our partner in this community-engaged learning experience.

RLST 2557 Christian Spirituality 3 Credits
Course Tags: Catholic Studies: Religious Studies, Religious Studies Theology Track
Prerequisite(s): One 1000-level religious studies course.
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.

RLST 2558 The Classic: Truth in Religion and the Arts 3 Credits
Course Tags: Religious Studies Theology Track
Prerequisite(s): One 1000-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.

RLST 2559 Saints and Sinners: Images of Holiness in Contemporary Fiction 3 Credits
Course Tags: Catholic Studies: Religious Studies, Religious Studies Theology Track
Prerequisite(s): One 1000-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.

RLST 2649 American Catholic Theologians 3 Credits
Course Tags: American Studies Upper Level, American Studies: Religion, Catholic Studies: Religious Studies, Religious Studies Theology Track
Prerequisite(s): One 1000-level religious studies course.
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.

RLST 2660 I'm Spiritual, Not Religious: The American Spiritual Tradition 3 Credits
Course Tags: American Studies Upper Level, American Studies: Gateway, American Studies: Religion, Catholic Studies: Religious Studies, Religious Studies Major Track, Religious Studies Theology Track
Prerequisite(s): One 1000-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.

RLST 2662 Afro-Caribbean and African American Religions: Shout, O Children! 3 Credits
Course Tags: American Studies: Religion, Black Studies Focus Course, Catholic Studies: Religious Studies, Diversity, Equality, and Inclusion Minor Elective, International Studies Elective, Peace and Justice Studies, Religious Studies Major Track
Prerequisite(s): One 1000-level religious studies course.
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.

RLST 2663 New Religious Movements in America 3 Credits
Course Tags: American Studies Upper Level, American Studies: Religion, Religious Studies Major Track
Prerequisite(s): One 1000-level religious studies course.
This course examines new religious movements, more pejoratively known as "cults" 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. Traditions studied may include Christian Science, the Nation of Islam, Heaven's Gate, 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?

RLST 2665 Religion and Medicine in the United States 3 Credits
Course Tags: American Studies: Gateway, Health Studies: Traditions, Delivery, and Ethics, Religious Studies Major Track
Prerequisite(s): One 1000-level religious studies course.
Students will explore overlapping narratives that characterize the relationship between the worlds of religion and medicine: (1) how various religious peoples, traditions, and institutions have understood health and wellness, and how these various understandings have shaped their approach to western medicine and/or healing practices, and (2) how the medical field and medical professionals have understood, engaged with, and dealt with resistance to medical treatment from religious people, traditions, and institutions. Examining these narratives will help students to understand the complexity of the relationship of religion and medicine, and to reexamine their understandings of what is meant by "do no harm."

RLST 2667 Religion and Emotion in the U.S.: "Feeling Some Type of Way" 3 Credits
Course Tags: American Studies: Religion, Religious Studies Major Track
Prerequisite(s): One 1000-level religious studies course.
This course explores religion, religious experience, and identity in America through the lens of emotion, taking as its premise that religion and emotion are and have been intertwined in ways generative and destructive throughout U.S. history. Students will examine this relationship through a series of units that explore emotional "binaries," such as Love and Hate; Shame and Pride; Anxiety and Calm; and Grief and Joy. During each unit, students will have the opportunity to explore how a particular emotion and its purported opposite have shaped religious experiences, beliefs, practices, institutions, and peoples in the U.S.

RLST 2668 American Catholic History 3 Credits
Course Tags: American Studies: Religion, Catholic Studies: Religious Studies, Religious Studies Major Track
Prerequisite(s): One 1000-level religious studies course.
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.

RLST 2669 Religion and the Civil Rights Movement 3 Credits
Course Tags: Black Studies Focus Course, Diversity, Equality, and Inclusion Minor Elective, Religious Studies Major Track
Prerequisite(s): One 1000-level religious studies course.
With a special emphasis on the public speeches and work of Martin Luther King, Jr., this course will consider the role black religious leaders, institutions, culture played in shaping the modern Civil Rights Movement of the 1950s and 60s.

RLST 2670 Birth and Religion in the U.S. 3 Credits
Are conception, pregnancy, labor, and delivery of a baby a sacred season of spiritual growth? A religious blessing from God? A painful and dangerous set of medical conditions requiring expertise and technological monitoring? This course explores the intersections of religion, medicine, and maternity in American history and culture. Students learn how diverse religious beliefs and practices concerning pregnancy, birth, and the meaning of motherhood changed along with the development of modern Western medical care and technologies. This course contextualizes how scientifically based medical care, popular attitudes, and laws surrounding birthing were informed by religious norms and activism.

RLST 2730 Islamic Theology 3 Credits
Course Tags: Islamic World Studies: Humanities, Religious Studies Theology Track
Prerequisite(s): One 1000-level religious studies course.
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.

RLST 2750 Islamic Ethical and Legal Thought 3 Credits
Course Tags: Islamic World Studies: Humanities, Religious Studies Theology Track
Prerequisite(s): One 1000-level religious studies course.
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.

RLST 2760 Islam in America 3 Credits
Course Tags: American Studies Upper Level, American Studies: Religion, Diversity, Equality, and Inclusion Minor Elective, Islamic World Studies: Humanities, Religious Studies Major Track
Prerequisite(s): One 1000-level religious studies course.
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.

RLST 2795 Islam, Race, Power 3 Credits
Course Tags: Diversity, Equality, and Inclusion Minor Elective, Islamic World Studies: Humanities
Prerequisite(s): One 1000-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. This course is research and writing intensive.

RLST 2880 Hinduism 3 Credits
Course Tags: Asian Studies Elective, International Studies Elective, Religious Studies Major Track
Prerequisite(s): One 1000-level religious studies course.
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.

RLST 2883 Buddhist Spirituality 3 Credits
Course Tags: Asian Studies Elective, International Studies Elective
Prerequisite(s): One 1000-level religious studies course.
The course explores the cultivation of meditation and spirituality in the Buddhist tradition, its embodiment in seminal figures in India, China, Japan, and Tibet, and their individual expressions of contemplation and spiritual experience. The association of these Buddhist saints with value systems, specific sites, and sacred activities is examined, especially as the relationships between these persons and their activity in the world reflect their religious path. Particular emphasis is placed on the questions of religious inspiration and creativity, and the manner that these are formed in the process of training in contemplation.

RLST 2886 Buddhism in the United States 3 Credits
Course Tags: Asian Studies Elective, Religious Studies Major Track
Prerequisite(s): One 1000-level religious studies course.
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.

RLST 2889 Tantrism 3 Credits
Course Tags: Asian Studies Elective, International Studies Elective, Religious Studies Major Track
Prerequisite(s): One 1000-level religious studies course.
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 tantrism's medieval origins, its espousal of antinomian conduct, its geographical spread, attempts at its domestication, and its recent developments in India and abroad.

RLST 2900 Special Topics (Shell) 3 Credits
Course Tags: Religious Studies Major Track, Religious Studies Theology Track
Prerequisite(s): One 1000-level religious studies course.
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.

RLST 3990 Independent Study 1-3 Credits
Prerequisite(s): One 1000-level religious studies course.
Students, in consultation with a department director, define their course of study.

Russian (RUSN)

RUSN 1110 Elementary Russian I 3 Credits
Course Tags: Russian Studies Minor: Language
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.

RUSN 1111 Elementary Russian II 3 Credits
Course Tags: Russian Studies Minor: Language
Prerequisite(s): RUSN 1110.
This course, a continuation of RUSN 1110, 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.

RUSN 2210 Intermediate Russian I 3 Credits
Course Tags: Russian Studies Minor: Language
Prerequisite(s): RUSN 1111.
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.

RUSN 2211 Intermediate Russian II 3 Credits
Course Tags: Russian Studies Minor: Language
Prerequisite(s): RUSN 2210.
This course, a continuation of RUSN 2210, 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 (RECS)

RECS 3980 Internship 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.

RECS 4999 Capstone Seminar: Current Topics in Russia, Eastern Europe, and Central Asia 3 Credits
Course Tags: Russian Studies Minor: Capstone
Prerequisite(s): Junior standing.
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.

Social Work, BSW (SWRK)

SWRK 1101 Social Work Essentials I 3 Credits
This course begins with an introduction to the core values of the social work profession, including service, social justice, the worth and dignity of the person, the importance of human relationships, integrity, and competence. Students will explore the personal qualities and attributes necessary to engage in the helping relationship and will explore the importance of caring for themselves as they learn to care for others. It also addresses common challenges that social workers encounter, such as stress, secondary trauma, compassion fatigue, and burnout. Through intellectual curiosity, creativity, openness, and self-reflection students will be introduced to the history and foundation of professional self-care and come to understand it as a professional responsibility tied to competent practice. The exploration of aspects of their personal identity will help students to develop an understanding of themselves, both individually and in relationships with others. The course will challenge students to reflect on their own biases and to gain an understanding of the ways in which oppression, power, poverty, privilege, inequality, and other social issues affect the development of individual identities. The course will support students in the development of contemplative practices meant to enhance their ability to be present, manage stress, sustain wellbeing, access joy, and engage in self-care.

SWRK 1102 Social Work Essentials II 3 Credits
This course will explore the personal qualities and self-awareness necessary to engage in ethical social work practice. Critical self-reflection and an evaluation of the use of self as an instrument of change are as important in the development of a professional sense of self as theoretical knowledge. Because social work is an art, a science and a profession, students will be asked to contend with concepts, ideas and behaviors that reflect the nature of these dynamic practices. Students will endeavor to advance their self-awareness and empathy, as well as explore how they are called to a life of meaning and purpose, as framed through the exploration of the fundamental Jesuit questions: Who am I? Whose am I? What am I called to do? Students will also enhance their ability to engage in restorative-practice, self-compassion, and presence, and to foster resilience, through the development of mindfulness and other contemplative practice.

SWRK 2400 Social Work: An Introduction 3 Credits
Course Tags: Health Studies: Social Science
This course provides an overview of the social work profession, including the knowledge, values and skills that provide the foundation for generalist social work practice. Students are introduced to the systems and ecological framework through which social workers view the complex nature of human and social problems. There is a focus on fields of practice, methods and models of intervention, and the historical mission of the profession to advance human rights, social justice and to provide services to vulnerable and oppressed populations. Crosslisted with SOCI 2400.

SWRK 2410 History of Social Welfare 3 Credits
Course Tags: American Studies: Sociology, Health Studies: Social Science, Peace and Justice Studies
Prerequisite(s): Sophomore standing.
This course explores the evolution of social welfare in the United States. Emphasis will be placed on the social, political, legal, economic, and philosophical forces that have forged American social welfare policy and helped shape the profession of social work. In exploring historical events, social justice and ethical lenses as well as issues of class, race, ethnicity, and gender, will provide frameworks through which to view current social welfare issues, including poverty, housing, health care, food insecurity, and others. The course will provide historical context to issues by exploring the development of policies such as The Social Security Act of 1935, The Economic Opportunity Act of 1964, The Civil Rights Act of 1965, The Personal Responsibility & Work Opportunity Reconciliation Act of 1996, The Mental Health Parity and Addiction Equity Act of 2008, The Patient Protection and Affordable Care Act of 2010, among others. Crosslisted with SOCI 2410.

SWRK 3301 Human Behavior in the Social Environment I 3 Credits
Corequisite(s): SWRK 3303.
Prerequisite(s): SWRK 2400.
The purpose of this course is to engage students in an exploration of human behavior and the impact of the environment on individuals as they develop through the lifespan. It examines the biopsychosocial and spiritual aspects of human development with a further emphasis on how factors such as poverty, discrimination, racism, culture, gender, health status, and sexual orientation, affect the developmental process. Exploration of research, case examples and self-reflection, will deepen students ability to conceptualize the processes of assessment, intervention, and the person-in-environment perspective across systems with diverse populations. This course, the first in sequence, will cover human reproduction through adolescence.

SWRK 3302 Human Behavior in the Social Environment II 3 Credits
Corequisite(s): SWRK 3304.
Prerequisite(s): SWRK 2410.
The purpose of this course is to engage students in an exploration of human behavior and the impact of the environment on individuals as they develop through the lifespan. It examines the biopsychosocial and spiritual aspects of human development with a further emphasis on how factors such as poverty, discrimination, racism, culture, gender, health status, and sexual orientation, affect the developmental process. Exploration of research, case examples and self-reflection, will deepen students ability to conceptualize the processes of assessment, intervention, and the person-in-environment perspective across systems with diverse populations. This course, the second in sequence, will cover young adulthood through end-of-life issues.

SWRK 3303 Social Policy and Social Justice 4 Credits
Prerequisite(s): SWRK 1101, SWRK 1102, SWRK 2400, SWRK 2410.
The course will explore policy within the context of social, economic, and environmental justice issues including oppression, poverty, income inequality, food insecurity, immigration, healthcare disparity, pollution, criminal justice, and other issues that affect individual and social well-being. The impact of social policies and social programs on vulnerable populations will also be explored. Students will understand and identify with the role of social workers as agents of change in developing and advocating for social policies that meet the needs of clients. This course will include community-engaged learning in a community setting and will culminate in a project that will evaluate policy issues that arise throughout the semester.

SWRK 3304 Research in Social Work Practice 4 Credits
Prerequisite(s): SWRK 1101; SWRK 1102; SWRK 2410; MATH 1017* or MATH 2217*.
Scientific inquiry which tests theory and supports the evidence base of social work intervention is a critical component of social work education. The research course introduces students to all aspects of the research process, including forming hypotheses, framing research questions, conceptualizing, and conducting a literature review, identifying variables, quantitative and qualitative measurement, sampling, data collection, coding, data analysis, and communication of results. Students will also learn to include and be sensitive to ethical guidelines in social work research and the importance of a culturally competent approach to research. This course will include community engaged learning. (*indicates concurrency allowed)

SWRK 3311 Leadership for Interdisciplinary Health Professionals 3 Credits
This course is designed to expose students in the fields of public health and social work to conceptual frameworks through which to view leadership. Students will explore the key values and personal attributes that guide the leadership process. Students will engage in dynamic exercises and collaborative work to better understand leadership principles and work to apply these concepts to communities in their fields of study. The students will have the opportunity to reflect on leadership qualities relevant to their profession as well as personal leadership qualities that guide the relationship with vulnerable populations. Cross-listed with PUBH 4301.

SWRK 4305 Generalist Social Work Practice I 3 Credits
Corequisite(s): SWRK 4307.
This is the first of two courses in the generalist practice and methods curriculum. This course immerses students in the fundamental values, ethics, skills, and knowledge that are the foundation of generalist social work practice. The course will cover the NASW Code of Ethics and Standards with a strong focus on cultural competence and a strengths-based approach to practice with individuals and families. Students will be encouraged to explore the profession while developing direct practice skills, such as developing the helping relationship, assessment, conceptualizing problems, assessing strengths, using research to inform practice, setting goals and contracting, choosing and evaluating intervention strategies, and evaluating practice. Students are expected to apply knowledge of human behavior, social policy, research, and practice with diverse and vulnerable populations into the practice situation.

SWRK 4306 Generalist Social Work Practice II 3 Credits
Corequisite(s): SWRK 4308.
Prerequisite(s): SWRK 4305.
This is the second of two courses in the generalist practice and methods curriculum. This course further immerses students in the fundamental values, ethics, skills, and knowledge that are the foundation of generalist social work practice. There will be a focus on increasing students understanding of the helping process and the development of generalist practice knowledge and skills. There will be emphasis on the importance of applying theoretical and empirical knowledge when choosing intervention strategies. Students will continue to engage in an ongoing and reflective process of exploring and evaluating their own practice and will also reflect on their "use of self" with clients and in the supervisory process. It is expected that students will integrate prior learning from previous courses and in current fieldwork concerning human behavior, social policy, research, service delivery, and practice with diverse and vulnerable populations across systems with specific focus on group work and community practice.

SWRK 4307 Integrative Field Practicum Seminar I 3 Credits
The course is the first of two field seminar courses and is taken in conjunction with Field Practicum I. The purpose of this course is to acclimate students to field work and to prepare them for social work practice with diverse and vulnerable populations. The course will focus on the knowledge, values, and skills required to identify as a professional social worker and to practice in the field with competence, including the professional use of self, the application of social work values and ethics in social work practice, the use of communication skills, engaging in the supervisory process, social worker roles in community practice, understanding the organizational context of practice, exploring research to inform evidence-based practice, understanding and protecting clients confidentiality, and the Health Insurance Portability and Accountability Act of 1996. The seminar is designed to support students learning and integration of knowledge as they build practice skills. Students are supported through the use of small group process oriented interactions, self-reflection, role-play, case discussion, and experiential exercises. Students are also encouraged to share questions, concerns, and learning needs in regards to their field experience.

SWRK 4308 Integrative Field Practicum Seminar II 3 Credits
Prerequisite(s): SWRK 4307.
This second seminar course is process-oriented and is designed to provide students the opportunity to discuss, analyze, and integrate theory within their field and coursework learning while demonstrating their ability to apply multiple sources of knowledge and skills to generalist social work practice. The seminar provides the opportunity for further learning and consolidation of knowledge and skills, through self-reflection, case discussion, process recordings, presentations, experiential exercises.

SWRK 4951 Field Practicum I 4 Credits
As the "signature pedagogy" in the education of professional social workers, field learning is integral to the program and needs to instill in students the ability "to think, to perform, and to act with integrity" (Shulman). The Field Practicum is designed to provide students with a generalist perspective for social work practice, through supervised experience with individuals, families, groups, organizations, and communities. Provided in collaboration with human and social service agencies, the field practicum will preparation students for professional practice in social work.

SWRK 4952 Field Practicum II 4 Credits
As the "signature pedagogy" in the education of professional social workers, field learning is integral to the program and needs to instill in students the ability "to think, to perform, and to act with integrity" (Shulman). The Field Practicum is designed to provide students with a generalist perspective for social work practice, through supervised experience with individuals, families, groups, organizations, and communities. Provided in collaboration with human and social service agencies, the field practicum will preparation students for professional practice in social work.

SWRK 4990 Independent Study 1-3 Credits

Social Work, MSW (SWRG)

SWRG 5433 Social Justice and Diversity in Professional Practice 3 Credits
Students will examine issues in professional practice with individuals, couples and families from diverse ethnic, cultural, racial, religious, and socioeconomic backgrounds. Students increase their self-awareness of their own social identity, values and biases, and impacts on their clinical (other professional) work. Collaboration and interdisciplinary contextual factors will be considered. The course addresses the role of power, privilege, and oppression in the lives of individuals, families, and the society. The course addresses the issues of gender role stereotyping and changing sex roles, and integrates professional contributions from the professional literature. Crosslisted with MFTH 5433.

SWRG 5447 Human Behavior and the Social Environment II 3 Credits
This course is designed to introduce social work students to various theoretical models that explain how human behavior is shaped by groups, organizations, and communities. The ecological and strength perspectives are employed for understanding human behavior within the context of these systems. Attention is also placed on the influence of social class and ethnicity on human behavior. This course will look at the different worldviews of diverse populations in order to help students develop and achieve cultural competencies.

SWRG 5533 Human Behavior and the Social Environment I 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.

SWRG 5551 Generalist Social Work Practice I 3 Credits
Social work practice is based on a foundation of generalist social work. This course begins with an overview of the profession through its history and conceptual development and an examination of fundamental social work knowledge, values, and skills. The content focuses on social work interventions appropriate at the macro environment, mezzo and micro levels of practice. All aspects of practice will be presented in the context of cultural competence and social justice.

SWRG 5553 Social Policy and Practice 3 Credits
This course surveys the history of social welfare policy, services, and the social work profession. It explores current social welfare issues in the context of their history and the underlying rationale and values that support different approaches. Emphasis is placed on major fields of social work service such as: income maintenance, health care, mental health, child welfare, corrections, and services to the elderly. Analytic frameworks with regard to social welfare policies and services are presented. These frameworks identify strengths and weaknesses in the current social welfare system with respect to multiculturalism and diversity; social justice and social change; behavioral and social science theory and research; and social work relevant promotion, prevention, treatment, and rehabilitation programs and services.

SWRG 5554 Introduction to Substance Abuse Treatment 3 Credits
This course is an introduction to the field of substance abuse and addiction. Systemic, post-modern, and linear perspectives will be presented. A variety of models to assist in understanding the complexity of substance use and process addiction will be explored. Attention is also paid to gender, socio-economic, and cultural factors that impact substance abuse and recovery. Assessment techniques, intervention strategies, and relapse prevention issues will be review from systemic, post-modern, and linear models. Throughout the course the participants will be asked to consider their own beliefs about substance use and process addictions and how those beliefs might impact their effectiveness as clinicians. The course will be heavily affective and require a great deal of personal involvement in understanding addictions.

SWRG 5561 Social Work Fieldwork I 3 Credits
This course offers field practice and immersion into social work process under direct supervision of a licensed Clinical Social Worker. The field placement engages the student in social work practice, integrates policy formulation into a coherent professional position, and builds an understanding of social justice as integral to the profession. The field placement (and accompanying integrative seminar) is designed to support students in developing and integrating skills and knowledge learned in coursework into their professional social work practice. Fieldwork I and II require a student to spend a minimum of 450 hours in a supervised field setting. Each student is expected to assess her/his social work learning needs, and to plan and complete, with the assistance of the agency-based field instructor, activities that support achievement of structured learning goals. Student progress is monitored throughout the placement using a competency development model. Two formal student evaluations are completed: at mid-placement and at the end of the field placement. All social work fieldwork requires participation in integrative practice seminars throughout the semester. Students must complete 450 hours in generalist social work practice field placement prior to enrollment in this course.

SWRG 5566 Research Methods in Social Work I 3 Credits
This required course is part of the research sequence in the generalist practice curriculum. The purpose of this course is to develop students' understanding and skills in the approaches, techniques, and challenges of conducting social work research and to enable students to be competent and discerning consumers of social science literature.

SWRG 5598 Tevera Site Placement Process 0 Credits
This zero-credit course is designed for students as a mechanism for payment of SWRG Technology Fee associated with the Tevera site placement platform used for the clinical training process.

SWRG 5890 Integrated Care in Mental Health: Context, Teaming Skills, & Brief Clinical Interventions 3 Credits
Behavioral health providers are increasingly working in fast-paced, team-based settings that integrate health, mental health, substance use disorder treatment, among others. Examples of settings include: mobile crisis, health care, and higher education. This course provides students with a foundation in health care policies and new models of team-based care and prepares them to engage in effective collaborative practice using brief treatment modalities. Grounded in Interprofessional Education Collaborative (IPEC) Competencies, student will learn effective communication strategies for working on interprofessional teams as well as develop understanding of cultural humility and client-centered care. The course will also cover core components of evidence-based clinical interventions such as SBIRT (using motivational interviewing), mindfulness, cognitive-behavioral therapy, self-management skill development, and psychoeducation. Students will engage in interprofessional discussions, practical applications/simulations, and reflective exercises throughout the course. This elective is open to any SEHD behavioral health master's student. (3 credits).

SWRG 6425 Organizational and 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 small business. Attention will be focused on narrowing student focus in order to develop a feasible strategy for creating, implementing, and maintaining small business goals. The course will draw on program evaluation research to prepare the student to assess business outcomes to ensure attainment of practice goals. Emphasis will be placed on the mastery of key components required to create and sustain a business including defining the scope and purpose of the professional practice as mandated by licensure and professional standards, marketing, financial, and legal implications, and personal and professional resources, all within the framework of the conceptualized brand. Focus will also be placed upon problem solving through case studies related to student's development of sound business knowledge. Course content will be examined through a self-reflective lens, incorporating self of the therapist, mindfulness and ethical and professional practice. Crosslisted with MFTH 6425.

SWRG 6450 Narrative and Solution-Focused Therapy 3 Credits
This course will provide an overview of two postmodern and strengths-based therapeutic theories, concepts and applications. Students will become acquainted with the theories and concepts developed by White, Epston, Anderson, Freedman, Combs, de Shazer, Berg, and others. Attention will be focused on distinguishing between the postmodern approaches in terms of assessment, conceptualization, treatment, and theoretical foundations.

SWRG 6552 Generalist Social Work Practice II 3 Credits
Prerequisite(s): SWRG 5551.
Social work practice is based on a foundation of generalist social work. This course begins with an overview of the profession through its history and conceptual development and an examination of fundamental social work knowledge, values, and skills. The content focuses on social work interventions appropriate at the macro environment, mezzo and micro levels of practice. All aspects of practice will be presented in the context of cultural competence and social justice.

SWRG 6562 Social Work Fieldwork II 3 Credits
Prerequisite(s): SWRG 5561.
This course offers field practice and immersion into social work process under direct supervision of a Licensed Clinical Social Worker. The field placement engages the student in social work practice, integrates policy formulation into a coherent professional position, and builds an understanding of social justice as integral to the profession. The field placement (and accompanying integrative seminar) is designed to support students in developing and integrating skills and knowledge learned in coursework into their professional social work practice. Fieldwork I and II require a student to spend a minimum of 450 hours in a supervised field setting. Each student is expected to assess their social work learning needs, and to plan and complete, with the assistance of the agency-based field instructor, activities that support achievement of structured learning goals. Student progress is monitored throughout the placement using a competency development model. Two formal student evaluations are completed, at mid-placement and at the end of the field placement. All social work fieldwork requires participation in integrative practice seminars throughout the semester.

SWRG 6562P Social Work Fieldwork II 6 Credits
See SWRG 6562.

SWRG 6563 Advanced Clinical Skills and Practice I 3 Credits
Motivational Interviewing (MI) is "a collaborative conversation style for strengthening a person's own motivation and commitment to change" (Miller and Rollnick, 2012). The definition has intentionally evolved throughout the "lifespan" of this counseling posture (since its inception in the 1980s) to reflect its applicability and effectiveness not only across clinical populations, but also indeed among non-clinical populations. This required course offers both theoretical foundations and critical skill acquisition for "beginner" competency. Methods of instruction will include didactic modules, written exercises, small-group exercises, video analyses, and many opportunities to practice key skills.

SWRG 6564 Advanced Clinical Skills and Practice II 3 Credits
This is a clinical skills and practice course, taken during students' final semester in the MSW program. The course is designed to introduce students to a range of therapeutic modalities, including: psychodynamic therapy, Cognitive Behavioral Therapy, and Dialectical Behavioral Therapy. Students will hone skills in case formulation from multiple theoretical perspectives and application of theory to practice, using above modalities. The final capstone presentation will give students the opportunity to demonstrate knowledge attained throughout the program (across core competencies – ethics, social justice, policy, process of clinical practice) in the format of a case presentation. Students will also share a professional identity statement. 3 credits.

SWRG 6568 Advanced Social Work Research and Program Evaluation 3 Credits
Students will develop knowledge of evidence-based practice, including skills needed to identify, acquire, and assess appropriate interventions for practice and basic skills required to evaluate their own social work clinical practice.

SWRG 6569 Assessment Techniques and Psychopathology 3 Credits
This advanced social work course addresses clinical diagnosis and assessment in the treatment process. Diagnosis and assessment represent the integration of information from multiple sources to provide a perspective of current individual, partner, and family functioning for the purpose of decision-making, treatment planning, evaluation, and interdisciplinary and larger system communication. This course will highlight an awareness of gender and diversity issues in diagnosis and the ethical use of formal and informal assessments. It will provide an introduction to the nomenclature and decision-making procedures of the DSM-5, and an overview of standardized assessment instruments and self-report inventories available for use with individuals, couples, and families.

SWRG 6570 Assessment Techniques and Psychopathology II 3 Credits
Prerequisite(s): SWRG 6569.
This course provides an integrative framework for assessment and diagnosis in clinical practice with adults. The process of assessment is situated in the context of clinical practice, including: collaborative treatment planning, interventions, evaluation, and interdisciplinary and larger system communication. This course will highlight an awareness of anti-oppressive practice in diagnosis and the ethical use of formal and informal assessments. It will provide an introduction to the nomenclature and decision-making procedures of the DMS 5, and an overview of standardized assessment instruments and self-report inventories available for use with adults.

SWRG 6577 Advanced Social Justice, Diversity, and Ethical Professional Practice in Clinical Social Work 3 Credits
This course will focus on the key theories that explain the impact of the environment on human experience to be followed by an examination of how dimensions of culture, power, oppression, and cultural contexts can shape individual values, beliefs, worldviews, and identities and therefore play a role in the helping process. The course will build on Social Justice and Diversity in Professional Practice and will continue to explore areas of universality and difference in the context of gender, race, ethnicity, sexual orientation, spiritual beliefs, and socioeconomic status, as well as the realities and influence of multiple forms of oppression. Empathic and skillful clinical interventions with individuals, groups, and communities require self-understanding as well as understanding of others. This course provides an opportunity for increased self-awareness. The goal of the course is to enable students to develop a culturally competent framework for analyzing human behavior in order to create empathic, empowering relationships with individuals, families, groups, organizations, and communities. The course will also explore ethical decision-making theories and processes. Ethical decision-making is informed by knowledge of legal statutes and the NASW Code of Ethics. Exploration of interdisciplinary collegiality, ethical codes, and professional identity will also be discussed.

SWRG 6581 Advanced Clinical Specialist Field Work I 3 Credits
In Advanced Clinical Field Work, students are placed in clinical settings where they provide therapy to individuals, couples, families and groups. Students will apply clinical models and interventions in their work with clients across the lifespan. All social work fieldwork requires participation in integrative practice seminars throughout the semester.

SWRG 6582 Advanced Clinical Specialist Field Work II 3 Credits
Prerequisite(s): SWRG 6581.
This course is a continuation of SWRG 6581.

SWRG 6611 Trauma Informed Clinical Practice 3 Credits
Trauma Informed Clinical Practice is a clinical course that examines trauma and interpersonal violence from a critical lens exploring the various types of trauma, their effect on human lives and trauma-informed, evidence-based interventions for social work practice. Exploring the prevalence and complex dynamics of trauma and interpersonal violence from an ecosystems lens, this course contextualizes the environment in which traumatic events occur, analyzing the historical roots of movements and social policy influencing social thought about trauma and response strategies. Students will learn to think critically about the intersection of sociopolitical discourse with existing intervention approaches, as well as the intersectionality of persons vulnerable to trauma exposure and their historical, cultural legacies, and the importance of reflexive practice to effectively engage in the work. The biopsychosocial impact of interpersonal violence, relationally based trauma and traumatic events will be examined, and its effects on the developmental life course. Students will learn about the neurobiological impact and complex manifestations of trauma, including the effects of surviving adverse childhood experiences as it relates to social determinants of health. The various types of traumatic event exposure in childhood and adulthood will be reviewed. Issues of social justice and oppression will be highlighted in relation to social work practice with survivors of trauma, particularly the manifestation of power dynamics and potential re-enactment in the therapeutic relationship. (3 credits).

SWRG 6900 Special Topics 1-3 Credits
This course explores topics in the field of social work. Topics may vary each semester and are determined by the Social Work faculty as a reflection of pertinent themes of interest in the field.

Sociology (SOCI)

SOCI 1100 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.

SOCI 1110 American Society 3 Credits
Course Tags: American Studies: Gateway, American Studies: Sociology
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.

SOCI 1115 Sociology of the Family 3 Credits
Course Tags: American Studies: Sociology, 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.

SOCI 1120 Sociology of Sexuality 3 Credits
Course Tags: American Studies: Sociology, 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.

SOCI 1125 Sociology of Religion 3 Credits
Course Tags: American Studies: Sociology
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.

SOCI 1130 Feminism, Gender, and Everyday Life 3 Credits
Course Tags: American Studies: Gateway, American Studies: Sociology, Diversity, Equality, and Inclusion Minor Elective, Peace and Justice Studies, 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.

SOCI 1135 Race, Gender, and Ethnic Relations 3 Credits
Course Tags: American Studies: Gateway, American Studies: Sociology, Black Studies Focus Course, Diversity, Equality, and Inclusion Minor Elective, Educational Studies Cognate, Peace and Justice Studies, Sports Media Elective, 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.

SOCI 1140 Urban/Suburban Sociology: NYC 3 Credits
Course Tags: American Studies: Sociology, Black Studies Component Course, Public Administration City Government
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.

SOCI 1145 Globalization 3 Credits
Course Tags: American Studies: Sociology
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?

SOCI 1150 Introduction to International Migration 3 Credits
Course Tags: Black Studies Component Course, Diversity, Equality, and Inclusion Minor Elective, Educational Studies Cognate, Humanitarian Action Minor Context Course, International Studies Elective, Latinx, Latin American and Caribbean Studies Minor Elective
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.

SOCI 1155 Sociology of Europe 3 Credits
Course Tags: Magis Core: Interdisciplinary
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.

SOCI 1160 Contemporary Latin American and Caribbean Society 3 Credits
Course Tags: International Studies Elective, Latinx, Latin American and Caribbean Studies Minor Elective
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.

SOCI 1165 Social Change in Developing Nations 3 Credits
Course Tags: Latinx, Latin American and Caribbean Studies Minor Elective
This course examines the major societal changes occurring in developing countries, seeking answers to two basic questions: To what extent are the current modernization efforts of Third World nations comparable to the earlier experience of the United States and Western Europe? How do existing inequalities and dependencies between developed countries and Third World nations affect their chances of modernizing? Students complete a semester-long web-based study of a particular country.

SOCI 1900 Special Topics (Shell) 3 Credits
Special topics in sociology provide an opportunity for students and faculty to explore compelling themes that are not covered in the department's regular course rotation and curriculum.

SOCI 2100 American Class Structure 3 Credits
Course Tags: American Studies: Gateway, American Studies: Sociology, Educational Studies Cognate, Peace and Justice Studies
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. Graduate equivalent: SOCI 5100.

SOCI 2110 Race, Cities, and Poverty 3 Credits
Course Tags: American Studies: Sociology, Black Studies Focus Course, Diversity, Equality, and Inclusion Minor Elective, Educational Studies Cognate, Peace and Justice Studies, Public Administration City Government
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. Graduate equivalent: SOCI 5110.

SOCI 2115 Women: Work and Sport 3 Credits
Course Tags: American Studies: Sociology, Peace and Justice Studies, Sports Media Elective, 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.

SOCI 2120 Population: Birth, Death, and Migration 3 Credits
Course Tags: Health Studies: Social Science
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.

SOCI 2125 Digital Sociology 3 Credits
Since the turn of the 21st century, human societies around the world have increasingly integrated digital technologies. In many ways, from how we date to how we discuss politics, our lives have become digitally mediated. We understand ourselves, each other, and the institutions we interact with through this mediation, resulting in changes to existing patterns and the creation of new ones. In this course, we will study some of these changes, focusing on the political economy, information flows and social movements, placing them in the context of power, inequality and technology.

SOCI 2130 Role of Money and Accounting in Society 3 Credits
This course will focus on social, economic, and political issues of importance related to the role of money and finance in the world and the US in particular, identify and explain major national social changes and their impact on the role of money and finance, and provide students with an interdisciplinary framework to the subject matter, balancing theoretical sociological perspectives with practical examples and best practices implemented by accountants. Knowledge about money and finance will be linked to contemporary social problems in order to obtain a broader understanding of the multiple causes and effects of long-term inequality. Crosslisted with ACCT 2250.

SOCI 2135 Race in the Americas 3 Credits
Course Tags: Black Studies Focus Course, Diversity, Equality, and Inclusion Minor Elective, History After 1750, Latinx, Latin American and Caribbean Studies Minor Elective, Non-Western History, U.S. History
Prerequisite(s): Sophomore standing.
This team-taught course explores the construction of race throughout the Americas. Course readings and assignments focus on Brazil, Dominican Republic, Mexico, Cuba, and Puerto Rico, among others. These places are emphasized as sharing overlapping concerns with the US, based on geography, common histories, and patterns of migration. We use an interdisciplinary approach integrating theory and research methods from history, sociology, politics, Latin American and Caribbean Studies, and Black Studies. We explore essential questions related to difference that all human societies have encountered over time. We deepen our understanding of why we categorize people, how we label them, and who decides. Crosslisted with HIST 2235.

SOCI 2200 Criminology 3 Credits
Course Tags: American Studies: Sociology, Public Administration Criminal Justice
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.

SOCI 2210 Sociology of Law 3 Credits
Course Tags: American Studies: Sociology, Public Administration Criminal Justice
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.

SOCI 2215 Death Penalty in America 3 Credits
Course Tags: American Studies: Sociology, Diversity, Equality, and Inclusion Minor Elective, Peace and Justice Studies, Public Administration Criminal Justice
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?

SOCI 2220 Criminal Justice System Seminar 3 Credits
Course Tags: American Studies Upper Level, American Studies: Sociology, Peace and Justice Studies, Public Administration Criminal Justice
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.

SOCI 2300 Sociology of Education 3 Credits
Course Tags: Black Studies Focus Course, Diversity, Equality, and Inclusion Minor Elective
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. Graduate equivalent: SOCI 5300.

SOCI 2310 Sociology of Hip-Hop Culture 3 Credits
Course Tags: American Studies: Gateway, American Studies: Sociology, Black Studies Focus Course, Diversity, Equality, and Inclusion Minor Elective, Women, Gender, and Sexuality Studies: Gender Component
Prerequisite(s): SOCI 1100 or any sociological course.
This course delves into Hip-Hop culture's origins, evolution, and societal impact, moving beyond mere appreciation. Originating in the South Bronx but with Afrocentric global roots, Hip-Hop, created by marginalized Black and Latino youth, remains pivotal in cultural discourse. Through a sociological lens, we analyze its influence, covering topics like race, class, gender, capitalism, urban policies, the war on drugs, etc. Students engage critically, gaining insights into its historical and social contexts. This exploration offers a nuanced understanding of hip-hop's multifaceted nature, encouraging a deep analysis of its societal implications.

SOCI 2400 Social Work: An Introduction 3 Credits
Course Tags: Health Studies: Social Science
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. Crosslisted with SWRK 2400.

SOCI 2410 History of Social Welfare 3 Credits
Course Tags: American Studies: Sociology, Health Studies: Social Science, Peace and Justice Studies
Prerequisite(s): Sophomore standing.
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. Crosslisted with SWRK 2410.

SOCI 3600 Methods of Research Design 4 Credits
Course Tags: American Studies: Sociology, Environmental Studies: Applied Professional Skills, Politics Major: American Politics, Public Administration Research Methods/Data Analysis
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.

SOCI 3610 Statistics: Social and Political Data Analysis 4 Credits
Course Tags: Environmental Studies: Applied Professional Skills, Politics Major: American Politics, Public Administration Research Methods/Data Analysis
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.

SOCI 3700 Classical Social Theory 3 Credits
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.

SOCI 3710 Contemporary Social Theory 3 Credits
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.

SOCI 4980 Field Work Placement 3 Credits
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.

SOCI 4990 Independent Study 1-4 Credits
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.

SOCI 4998 Data Analytics Capstone Seminar 3 Credits
In this capstone seminar, students will put into practice the skills they have learned as a data analytics minor by collecting, analyzing and presenting their data on a project they design. Before starting the course, the students are expected to identify a faculty member who is willing to serve as an advisor on their projects. In addition to working with this advisor, the course will offer opportunities for students to get frequent feedback from the instructor and their peers on their projects, as well as professionalization activities such as learning new software tools, skills, and networking opportunities with working professionals.

SOCI 5100 American Class Structure 3 Credits
This course focuses on the sequences of life as a result of hierarchical arrangements and stratification based on class, race, and gender. Although the primary emphasis of this course is on social class, its starting point is that the dynamics and consequences of social class cannot be fully understood without a serious and detailed analysis of race and gender as well as its complex interactions. Undergraduate equivalent: SOCI 2100.

SOCI 5110 Race, Cities, and Poverty 3 Credits
This course introduces students to the sociology of race and ethnicity, urban sociology, and the sociological study of inequality with a focus on American cities and the diversity of racial groups, ethnic backgrounds, class backgrounds, countries of origin, cultures, religions, and political philosophies. The unique challenges and opportunities that face urban residents as well as causes and consequences of urban poverty with case studies of Los Angeles, Milwaukee, Detroit, Hartford, New York, and Chicago will be discussed. Undergraduate equivalent: SOCI 2110.

SOCI 5300 Sociology of Education 3 Credits
This course introduces students to sociological perspectives on education. We will focus on the structure, practices, content, and outcomes of schooling in contemporary society. 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. Undergraduate equivalent: SOCI 2300.

Software Engineering (SWEG)

SWEG 3301 Software Engineering Methods 3 Credits
Course Tags: Magis Core: Writing in the Discipline
Corequisite(s): CPSC 3351L.
Prerequisite(s): CPSC 2232.
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. Graduate equivalent: SWEG 5301.

SWEG 3302 Software Design Methods 3 Credits
Prerequisite(s): SWEG 3301.
This course is the continuation of SWEG 3301 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. Graduate equivalent: SWEG 5302.

SWEG 4312 Agile Software Engineering 3 Credits
Prerequisite(s): SWEG 3301.
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. Graduate equivalent: SWEG 5312.

SWEG 4320 Software Testing and Maintenance 3 Credits
Prerequisite(s): SWEG 3301.
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. Graduate equivalent: SWEG 5320.

SWEG 4321 Software Project Management 3 Credits
Prerequisite(s): SWEG 3301.
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. Graduate equivalent: SWEG 5321.

SWEG 4505 Advanced Database Concepts 3 Credits
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. The format consists of lecture and lab components. Cross-listed with SWEG 6505.

SWEG 4599 Ethical Hacking 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. Cross-listed with SWEG 6599.

SWEG 4900 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.

SWEG 4990 Independent Study 1-3 Credits
This course is an individualized study under the supervision of the faculty member. The course emphasizes individual creativity. Undergraduate students work with a faculty mentor in studying and investigating topics of current interest in software engineering. Enrollment by permission only.

SWEG 5301 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. Undergraduate equivalent: SWEG 3301.

SWEG 5302 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. Undergraduate equivalent: SWEG 3302.

SWEG 5304 Web Development I 3 Credits
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 sheets, the client side document object model, and making web pages dynamic on the client side. Undergraduate equivalent: CPSC 2304.

SWEG 5305 Mobile Application Development 3 Credits
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. Undergraduate equivalent: CPSC 4305.

SWEG 5312 Agile Software Engineering 3 Credits
Prerequisite(s): SWEG 5301.
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. Undergraduate equivalent: SWEG 4312.

SWEG 5315 Computational Biology 3 Credits
This course is designed to benefit computational and experimental biologists to understand the principles of analyzing biological data, building models and testing hypotheses using computer science paradigms. Students will learn how to build computational tools that are used to analyze DNA content, identify protein binding patterns, compare sequences, and discover variation within genomes. Undergraduate equivalent: CPSC 4315.

SWEG 5317 Computational Statistics for Biomedical Sciences 3 Credits
This course will provide a practical introduction to analysis of biological and biomedical data. Basic statistical and machine learning techniques will be covered, including descriptive statistics, linear regression, non-linear regression, classification/prediction, and biomedical data visualization. Emphasis will be on how to choose appropriate data analysis models and how to assess statistical significance. This course will benefit data scientists to apply data science techniques to analyze biomedical data or clinical data. In addition, this course is also designed to benefit computational and experimental biologists to understand the principles of analyzing biological data, building models and testing hypotheses using computer science paradigms. To visualize data and carry out data analysis, students will learn R or Python, and other programming languages for statistical computing and graphics. The class will be a combination of lecture and computer lab. Undergraduate equivalent: CPSC 4317.

SWEG 5320 Software Testing and Maintenance 3 Credits
Prerequisite(s): SWEG 5301.
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. Undergraduate equivalent: SWEG 4320.

SWEG 5321 Software Project Management 3 Credits
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. Undergraduate equivalent: SWEG 4321.

SWEG 5322 Visual Analytics 3 Credits
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. Undergraduate equivalent: CPSC 4322.

SWEG 5333 Introduction to Cybersecurity 3 Credits
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. Undergraduate equivalent: CPSC 3333.

SWEG 5335 Digital Forensics 3 Credits
In this course students will be given the basic notions and theory of digital forensics. For file systems and operating systems, the class covers investigative techniques and legal and technical considerations that the examiner should make. They will learn concepts, challenges, and tools in applying digital forensics examinations. The course includes, but not limited to, topics in the suggested curriculum of CDFE certification. The course will use lectures, reading assignments, and interactive lab exercises to reinforce the concepts that are introduced. Undergraduate equivalent: CPSC 4335.

SWEG 5349 Cloud Computing 3 Credits
This course will introduce the foundations of cloud computing, and familiarize students with the core concepts needed to build, deploy and manage applications in a cloud. Besides the theoretical underpinnings, emphasis will be put on practical experience of using cloud resources and services. Concepts like microservices and containers will be discussed in depth, as well as best practices for building successful cloud native applications and implications for development and operational processes. The course will be a combination of lectures and hands-on experience of a public cloud. Undergraduate equivalent: CPSC 3349.

SWEG 5350 Introduction to Data Science 3 Credits
Prerequisite(s): CSPC 1101.
This course offers a thorough introduction to data science, focusing on both practical skills and theoretical knowledge across a wide range of topics. It guides students through the entire data science lifecycle, starting from the basics of data wrangling, exploratory data analysis, and visualization, to more advanced topics such as statistical inference, machine learning, and natural language processing. Python with web-based interactive computing platforms, such as JupyterLab, are utilized as the primary tools for hands-on learning. Through a combination of lectures, hands-on projects, and assessments, students will learn to derive insights from data and make informed decisions based on data analysis.

SWEG 5355 Artificial Intelligence 3 Credits
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. Undergraduate equivalent: CPSC 4355.

SWEG 5357 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, and 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. Undergraduate equivalent: CPSC 4357.

SWEG 5360 Machine Learning 3 Credits
This course will provide a practical introduction to machine learning applications such as face recognition, clinical diagnosis, speech recognition, natural language processing, or image classification. Topics such as regression, classification, neural networks, deep learning, and ensemble methods will be discussed. Emphasis will be on how to choose appropriate machine learning and deep learning models and how to evaluate their performance. The class will be a combination of lecture and computer lab. Undergraduate equivalent: CPSC 4360.

SWEG 5366 Deep Learning 3 Credits
Prerequisite(s): SWEG 5360.
This course offers a comprehensive introduction to the fundamental principles, theories, and practical aspects of deep learning. Lectures will begin with the basics of shallow neural networks before progressing to complex deep neural network structures. The topics include an overview of key neural network architectures, such as convolutional, recurrent, and autoencoder networks, and their applications in computer vision for tasks like image classification and segmentation, as well as in natural language processing for text classification and machine translation. Additionally, students will learn to craft deep learning architectures using Python on open-source machine learning platforms. Through a combination of lectures, practical exercises, and final projects, students will acquire the ability to implement deep learning models in real-world situations. Undergraduate Equivalent: CPSC 4366.

SWEG 5380 Quantum Algorithms and Applications 3 Credits
Prerequisite(s): SWEG 5350 or instructor permission.
This course offers students an in-depth overview of quantum computing, emphasizing both theoretical foundations and applied techniques. Students will explore the principles of quantum mechanics relevant to computation, including qubits, superposition, entanglement, and measurement. Key topics include quantum gates and circuits, quantum algorithms and applications. The course integrates hands-on experience with quantum programming, enabling students to simulate and implement quantum algorithms on real and emulated quantum hardware.

SWEG 5407 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.

SWEG 5417 Security Management 3 Credits
This course will introduce the foundations of security program management and familiarize students with the core concepts needed to build, deploy, and manage security controls and policy to protect against today's cyber threats and regulations. Besides the theoretical underpinnings, emphasis will be put on practical experience of using security governance resources. Concepts like security policy/standards, governance, risk management, and program management will be key to ensuring effective security program management. The course will be a combination of lectures and hands-on collaborative working experience in building a security program.

SWEG 5420 Systems Security 3 Credits
This course will introduce the core concepts of detective and preventative security and the venues that threat agents use to compromise and breach systems. Students will learn to evaluate their environment for potential attacker entry points physical, virtual, and electronic, and come up with solutions to deploy to prevent intrusions. Emphasis will be placed on theoretical occurrences, but will also include practical experience of using prevention applications. Additionally, research on methodologies used by attackers will be required from outside resources (internet) which will be shared with the class as a whole. The course provides a current status of what is prevalent in the evolving cybersecurity domain.

SWEG 5427 Operating Systems and Programming 3 Credits
This course introduces the internal operations of modern operating systems. Students will learn how to program on non-Windows OS platforms. The topics cover a brief history of operating systems, the major components of modern operating systems, and the object-oriented methodology on UNIX-like platforms. Various UNIX tools will be used in the course and students will study examples using object-oriented programs as well as large system integration by object-oriented methodology.

SWEG 5440 Vulnerability Management 3 Credits
This course will introduce the foundations of vulnerability program management and familiarize students with the core concepts needed to build, deploy, and manage vulnerability management controls that help identify risk and help prioritize remediation and determine risk to protect against today's cyber threats. Besides the theoretical underpinnings, emphasis will be put on practical vulnerability management experience. Concepts like vulnerability discovery, reporting and assessing risk, threat modeling, and security testing are key to managing a vulnerability management program's risk posture. The course will be a combination of lectures and hands-on a collaborative working experience in building a vulnerability management program.

SWEG 5521 Information Visualization 3 Credits
Topics covered include graphics programming, information visualization general principles, visualization techniques for one-dimensional, two-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. Undergraduate equivalent: CPSC 4521.

SWEG 5525 Human Computer Interaction 3 Credits
This course introduces students to the foundations of Human Computer Interaction and how it applies in software engineering and research settings. Students will learn how to design user interfaces based on the capabilities of computer technology and the needs of human factors. They will design user interfaces and learn how to implement a prototype from a list of informal requirements. It will also introduce students to issues related to human subject research as well as ethical implications of human computer interaction.

SWEG 5530 Introduction to Information Security 3 Credits
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 within the software engineering 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.

SWEG 5900 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.

SWEG 5990 Independent Study 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. Enrollment by permission only.

SWEG 6404 Network Security 3 Credits
This course is intended for individuals who need an understanding of the client-server environment, with any emphasis on network security. The OSI Model, network concepts and network architecture are discussed. The components that make up a network, including cabling, wiring hubs, file servers, bridges, switches, routers, network interface cards, network operating systems, and network software and hardware configurations are discussed. Network architectural concepts, wide area networks, remote access, and segmentation are discussed. Operating systems will be discussed and demonstrated. Featured is the seven-layer OSI model, the foundation of today's communication protocols. Students will work with various security protocols and configure routers and switches with security methods.

SWEG 6409 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 component included.

SWEG 6410 Enterprise Java 3 Credits
Prerequisite(s): SWEG 6409.
Advanced server-side Java technologies. Coverage includes state-of-the-art explorations into server-side technologies such as JDBC, Google Web Toolkit, Enterprise JavaBeans (EJB), Android, XML, etc., as time permits. Lab component included.

SWEG 6411 JavaScript Web Development 3 Credits
This course teaches software engineers how to produce robust, scalable, data driven JavaScript web applications. JavaScript is currently the most popular general-purpose programming language for web development. In this course students learn a wide range of JavaScript concepts. Topics covered in the course include web application architecture and organization; information management across distributed computing systems; connectivity to parallel and distributed database / web service systems; custom and dynamic web controls; web forms; and best practices. Towards the end of the course, students will engage in a major project that will require application of acquired course knowledge and skill. Students will also be able to articulate the complexities involved in creating and publishing an interactive JavaScript based web site. Programming will be part of this course. Finally, students will be able to implement best principles and practices for securing their web application.

SWEG 6417 Generative AI and Applications 3 Credits
Prerequisite(s): SWEG 5360 or SWEG 5355, or instructor permission.
This course provides students with a comprehensive foundation in building and deploying modern generative artificial intelligence (Gen AI) systems. The course examines the evolution of foundation models, large language models (LLMs), diffusion models, and multimodal systems, with emphasis on practical integration into scalable systems. Students explore several applied techniques, starting from deep learning models and all the way to agentic systems, along with evaluation methodologies, security, reliability, and secure deployment practices. The course builds foundations for responsible AI engineering, regulatory compliance, ethical implications, and risk management. Through hands-on projects and case studies, students design, evaluate, and deploy generative AI solutions within professional and interdisciplinary contexts.

SWEG 6448 Server Management 3 Credits
This is a course designed to provide the student with the tools necessary to manage Windows servers. The topics include user management, installation and configuration of web servers, mail servers, FTP servers, LDAP and backup, and other routine systems and network administration.

SWEG 6461 Pattern Recognition 3 Credits
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.

SWEG 6499 Algorithms 3 Credits
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.

SWEG 6505 Advanced Database Concepts 3 Credits
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. The format consists of lecture and lab components.

SWEG 6508 Data Warehouse Systems 3 Credits
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.

SWEG 6512 Web Development II with ASP.NET 3 Credits
This course teaches site developers how to create robust, scalable, data-driven ASP.NET Web. Students learn how to create ASP.NET applications using a text editor and the command-line tools, as well as using Visual Studio. Topics include the .NET framework, web forms, validation controls, database connectivity, web services, component development, user controls, custom server controls, and best practices, etc. At the end of the course, students will be able to describe the issues involved in creating an enterprise web site, creating and publishing a web site, creating interactive content for a website, adding server scripting to a web page using ASP.NET, implementing security in a website, and reading and writing information to a database from ASP.NET.

SWEG 6516 PHP and MySQL 3 Credits
Prerequisite(s): SWEG 5304.
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 will be able to design and implement scalable data-driven web applications.

SWEG 6518 Data Mining and Business Intelligence 3 Credits
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. Students will first examine the principles and practices of gathering and retrieving large volumes of data for analysis and synthesis. Next, students 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, students will also discuss knowledge management, how organizations manage and use the knowledge that they acquire, and presentation of data.

SWEG 6530 Applications and Data Security 3 Credits
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.

SWEG 6596 Network Routing and Switching 3 Credits
This course presents concepts and develops skills needed in designing, implementing, and troubleshooting local and wide area networks. Students design and configure LAN and WAN using routers and switches, learn the components of wireless networks, and how to configure and troubleshoot a network and optimize its performance. The course also provides numerous lab opportunities to configure and troubleshoot networks with Cisco routers and switches.

SWEG 6599 Ethical Hacking 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.

SWEG 6961 Capstone Professional Project I 3 Credits
Prerequisite(s): MATH 5417 or SWEG 5301 or SWEG 5322 or SWEG 5530 or SWEG 6518.
In this two-semester capstone sequence, 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.

SWEG 6962 Capstone Professional Project II 3 Credits
Prerequisite(s): SWEG 6961.
In this two-semester capstone sequence, 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.

SWEG 6971 Thesis I 3 Credits
Prerequisite(s): SWEG 5302; at least 18 credits of software engineering courses.
In this two-semester sequence of thesis courses, students will work on an individual research project that they should formulate as a problem, solve 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.

SWEG 6972 Thesis II 3 Credits
Prerequisite(s): SWEG 6971.
In this two-semester sequence of thesis courses, students will work on an individual research project that they should formulate as a problem, solve 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.

Spanish (SPAN)

SPAN 1110 Elementary Spanish I 3 Credits
Course Tags: Magis Core: Writing Across Curriculum
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.

SPAN 1111 Elementary Spanish II 3 Credits
Course Tags: Magis Core: Writing Across Curriculum
Prerequisite(s): SPAN 1110.
This course, a continuation of SPAN 1110, 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.

SPAN 2210 Intermediate Spanish I 3 Credits
Course Tags: Magis Core: Writing Across Curriculum
Prerequisite(s): SPAN 1111.
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.

SPAN 2211 Intermediate Spanish II 3 Credits
Course Tags: Latinx, Latin American and Caribbean Studies Minor Elective, Magis Core: Writing Across Curriculum
Prerequisite(s): SPAN 2210.
This course, a continuation of SPAN 2210, 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.

SPAN 2220 Spanish Language and Culture Review 3 Credits
Course Tags: Latinx, Latin American and Caribbean Studies Minor Elective, Magis Core: Writing Across Curriculum
Prerequisite(s): SPAN 2211.
This course is designed to reinforce and refine students' written and oral proficiency in Spanish as preparation for advanced coursework. Emphasizing a communicative approach, we focus on grammar review, stylistic accuracy, and appropriate linguistic register. Through active participation and engagement with a variety of cultural texts and short stories from the Spanish-speaking world, students will deepen their cultural understanding while developing more advanced speaking and writing skills. Students engage critically with issues such as cultural identity, domestic violence, and migration, as they are invited to question assumptions, biases, and worldviews that influence how we perceive and represent others .

SPAN 2220H Advanced Spanish for Heritage Speakers 3 Credits
Course Tags: Magis Core: Writing Across Curriculum, Spanish Major or Minor Elective
Prerequisite(s): Placement exam.
This course is directed at heritage speakers of Spanish, that is, students with personal background and prior instruction in Spanish who already possess functional communication abilities in the language. It will prepare students for upper-division literature, culture, linguistics, and translation courses by focusing on the development of advanced reading, writing, and oral abilities in Spanish. Emphasis will be placed on the main stages of the writing process through continuous practice inside and outside of the classroom. The class will use news articles, films, literary works, and other cultural texts. It will be conducted entirely in Spanish.

SPAN 2222H Advanced Spanish for Heritage Speakers 3 Credits
Course Tags: Magis Core: Writing Across Curriculum, Spanish Major or Minor Elective, Spanish Major: Linguistics, Translation Studies, and Spanish for Specific Purposes
Prerequisite(s): Placement exam.
This course is directed at heritage speakers of Spanish, that is, students with personal background and prior instruction in Spanish who already possess functional communication abilities in the language. It will prepare students for upper-division literature, culture, linguistics, and translation courses by focusing on the development of advanced reading, writing, and oral abilities in Spanish. Emphasis will be placed on the main stages of the writing process through continuous practice inside and outside of the classroom. The class will use news articles, films, literary works, and other cultural texts. It will be conducted entirely in Spanish. Previously SPAN 2220H

SPAN 3225 Spanish and English in Contrast 3 Credits
Course Tags: Magis Core: Writing Across Curriculum, Spanish Major or Minor Elective, Spanish Major: Linguistics, Translation Studies, and Spanish for Specific Purposes
Prerequisite(s): SPAN 2220.
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.

SPAN 3231B Career-Oriented Spanish for Business 3 Credits
Course Tags: Business Elective, Latinx, Latin American and Caribbean Studies Minor Elective, Spanish Major or Minor Elective, Spanish Major: Linguistics, Translation Studies, and Spanish for Specific Purposes
Prerequisite(s): SPAN 2220.
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.

SPAN 3231N Career-Oriented Spanish for Nursing and Health Studies 3 Credits
Course Tags: Educational Studies Cognate, Health Studies: Traditions, Delivery, and Ethics, Latinx, Latin American and Caribbean Studies Minor Elective, Spanish Major or Minor Elective, Spanish Major: Linguistics, Translation Studies, and Spanish for Specific Purposes
Prerequisite(s): SPAN 2220.
This to further develop Spanish skills in the four modes: speaking, listening, writing and reading to compliment health, pre-med and nursing studies at a post-intermediate level. In addition to an advanced course in Spanish grammar and vocabulary curated to the health studies needs, we will also explore the following topics through in-class presentations, role play, readings, and authentic texts from the Spanish-speaking world: Cultural competency, Lifespan issues, Bilingual health care systems, Health assessment in Spanish, and Patient teaching. Open to students interested in health professions, pre-med, nursing, etc.

SPAN 3245 Analysis and Interpretation of Hispanic Literature 3 Credits
Course Tags: Latinx, Latin American and Caribbean Studies Minor Elective, Magis Core: Writing Across Curriculum
Prerequisite(s): SPAN 2220.
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.

SPAN 3251 Spanish Civilization and Culture 3 Credits
Course Tags: Spanish Major or Minor Elective, Spanish Major: Peninsular (Spanish) Literature and Culture
Prerequisite(s): SPAN 2220.
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.

SPAN 3253 Spanish-American Civilization 3 Credits
Course Tags: Diversity, Equality, and Inclusion Minor Elective, Latinx, Latin American and Caribbean Studies Minor Elective
Prerequisite(s): SPAN 2220.
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.

SPAN 3271 Hispanic Film 3 Credits
Course Tags: Diversity, Equality, and Inclusion Minor Elective, Graphic Design: Film and Television, Latinx, Latin American and Caribbean Studies Minor Elective, Magis Core Exploration: VPA
Prerequisite(s): SPAN 2220.
In this course we examine Latin American and Latinx films to see how artists use cinema to capture their realities, create worlds, challenge stereotypes and social norms, and further complicate stories beyond commercial cinemas. Through consistent practice with the written word and manipulating film images, we examine the crucial importance of self-representation, and diversity of perspectives in front of and behind the camera. Through analysis and application, we explore Latin American cinemas as highly political and culturally-entrenched vehicles as they circulation in the world film landscape.

SPAN 3285 Introduction to Spanish Linguistics 3 Credits
Course Tags: Magis Core: Writing in the Discipline, Spanish Major: Linguistics, Translation Studies, and Spanish for Specific Purposes
Prerequisite(s): SPAN 2220.
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 United States. Taught in Spanish.

SPAN 3286 Languages and Identities: Sociolinguistic Approaches to Spanish in the U.S. 3 Credits
Course Tags: Diversity, Equality, and Inclusion Minor Elective, Spanish Major or Minor Elective, Spanish Major: Linguistics, Translation Studies, and Spanish for Specific Purposes
Prerequisite(s): SPAN 2220 or SPAN 2220H.
While the increased visibility of Spanish has surprised some in recent decades, people have been speaking Spanish in what is now the US for hundreds of years. This course off ers an introduction to sociolinguistics, i.e., the study of the language in relation to social factors, with a focus on Spanish in the US. Particular emphasis is placed on social and political issues that impact the use and representation of Spanish. Taught in Spanish.

SPAN 3980 Internship 3 Credits
Prerequisite(s): Junior standing.
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.

SPAN 3990 Independent Study 3 Credits
Prerequisite(s): Junior standing.
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. Enrollment by permission only.

SPAN 4302 Remembering the Spanish Civil War Through Contemporary Literature and Film 3 Credits
Course Tags: Magis Core Exploration: Literature, Spanish Major or Minor Elective, Spanish Major: Peninsular (Spanish) Literature and Culture
Prerequisite(s): SPAN 3245.
This course examines the recent investigative and cultural expression of events of the Spanish Civil War (1936-39), Franco Dictatorship (1939-75), and Transition to Democracy (1975-82). This cultural production parallels a push to physically excavate hundreds of Civil-War mass graves. Much like the demands to recover family members' bodies from these graves, an explicit social justice agenda is motivating novelists, playwrights, and filmmakers while they excavate the memory of these events. Through the study of contemporary Spanish literature and film, we examine the complex relationships between politics, social justice, cultural production, and the push to "recover" Spain's historical memory.

SPAN 4305 Popular Culture in Latin America 3 Credits
Course Tags: Spanish Major or Minor Elective, Spanish Major: Latin America Literature and Culture
Prerequisite(s): SPAN 3245.
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.

SPAN 4306 Cuban Film: A Close Look at the Revolution 3 Credits
Course Tags: Latinx, Latin American and Caribbean Studies Minor Elective, Magis Core Exploration: Literature, Magis Core: Writing in the Discipline, Spanish Major or Minor Elective
Prerequisite(s): SPAN 3245.
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.

SPAN 4307 Translation Theory and Practice: Spanish and English 3 Credits
Course Tags: Latinx, Latin American and Caribbean Studies Minor Elective, Spanish Major or Minor Elective, Spanish Major: Linguistics, Translation Studies, and Spanish for Specific Purposes
Prerequisite(s): SPAN 3245.
This course offers an introduction to the field of Translation Studies, both from theoretical and practical perspectives. Great emphasis will be placed on the translation process through continuous practice inside and outside of the classroom. Likewise, metalanguage and key concepts from translation theory will be progressively introduced through readings to facilitate the critical reflection and discussion of translation problems and solutions. The course will be taught in Spanish.

SPAN 4309 Bilingualism in the Spanish-Speaking World 3 Credits
Course Tags: Latinx, Latin American and Caribbean Studies Minor Elective, Spanish Major or Minor Elective, Spanish Major: Linguistics, Translation Studies, and Spanish for Specific Purposes
Prerequisite(s): SPAN 3245.
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. The course will be conducted in Spanish.

SPAN 4311 Glory, Splendor, and Decay: Spanish Golden Age Literature 3 Credits
Course Tags: Magis Core Exploration: Literature
Prerequisite(s): SPAN 3245.
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.

SPAN 4341 20th Century Spanish Literature 3 Credits
Course Tags: Magis Core Exploration: Literature, Spanish Major: Peninsular (Spanish) Literature and Culture
Prerequisite(s): SPAN 3245.
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.

SPAN 4346 Contemporary Spanish Theatre 3 Credits
Course Tags: Magis Core Exploration: Literature, Spanish Major: Peninsular (Spanish) Literature and Culture
Prerequisite(s): SPAN 3245.
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.

SPAN 4353 Spanish-American Narrative 3 Credits
Course Tags: Latinx, Latin American and Caribbean Studies Minor Elective, Magis Core Exploration: Literature
Prerequisite(s): SPAN 3245.
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.

SPAN 4357 The Spanish Novel 3 Credits
Course Tags: Magis Core Exploration: Literature, Spanish Major: Peninsular (Spanish) Literature and Culture
Prerequisite(s): SPAN 3245, junior standing.
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.

SPAN 4359 Culture, Civilization, and Literature in the Spanish-American Caribbean Region 3 Credits
Course Tags: Diversity, Equality, and Inclusion Minor Elective, Educational Studies Cognate, Latinx, Latin American and Caribbean Studies Minor Elective, Magis Core Exploration: Literature, Peace and Justice Studies, Spanish Major or Minor Elective, Spanish Major: Latin America Literature and Culture
Prerequisite(s): SPAN 3245, junior standing.
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.

SPAN 4360 Dictatorships and Revolutionary Movements in Contemporary Latin America 3 Credits
Course Tags: Latinx, Latin American and Caribbean Studies Minor Elective, Magis Core Exploration: Literature, Spanish Major or Minor Elective, Spanish Major: Latin America Literature and Culture
Prerequisite(s): SPAN 3245.
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 "neo-socialist" 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).

SPAN 4371 Images of Latin American Indians 3 Credits
Course Tags: Latinx, Latin American and Caribbean Studies Minor Elective
Prerequisite(s): SPAN 3245, junior standing.
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.

SPAN 4391 Introduction to Translation and Interpreting Studies, Spanish <> English 3 Credits
Course Tags: Spanish Major or Minor Elective
Corequisite(s): SPAN 4392.
Prerequisite(s): Placement exam.
This course offers an exploration of key principles, main schools of thought, and fundamental controversies in translation and interpreting theory. It will provide a conceptual foundation for students to draw on when describing, planning, assessing, and justifying their translations. English-Spanish translations will be used to discuss theoretical concepts. The course will be taught in English and Spanish.

SPAN 4392 Non-Specialized Translation Practice, Spanish <> English 3 Credits
Course Tags: Spanish Major or Minor Elective
Corequisite(s): SPAN 4391.
Prerequisite(s): Placement exam.
This course offers advanced intensive translation practice of non-specialized, non-fiction, non-literary texts. It will focus on the different steps of the translation process and it will emphasize detection and solving of translation problems through continued practice and reflection. Translation from Spanish into English will be prioritized, but translation from English into Spanish will also be practiced. The course will be taught in English and Spanish.

SPAN 4393 Computer-Assisted Translation Tools, Spanish <> English 3 Credits
Course Tags: Spanish Major or Minor Elective
Corequisite(s): SPAN 4394.
Prerequisite(s): SPAN 4391, SPAN 4392.
This course offers a hands-on introduction to computer-assisted translation tools used in the translation industry with a particular emphasis on SDL Trados Studio. Students will learn how to translate and review using SDL Trados Studio and how to manage terminological data using SDL Multiterm through the complexion of various English-Spanish translation tasks which mirror professional practice. The course will be taught in English and Spanish.

SPAN 4394 Commercial and Legal Translation, Spanish <> English 3 Credits
Course Tags: Spanish Major or Minor Elective
Corequisite(s): SPAN 4393.
Prerequisite(s): SPAN 4391, SPAN 4392.
This course offers an introduction to the specifics of commercial and legal translation through advanced intensive translation practice of specialized commercial and legal texts. Translation from Spanish into English will be prioritized, but translation from English into Spanish will also be practiced. The course will be taught in English and Spanish.

SPAN 4395 Medical Translation, Spanish <> English 3 Credits
Course Tags: Spanish Major or Minor Elective
Corequisite(s): SPAN 4396.
Prerequisite(s): SPAN 4393, SPAN 4394.
This course offers an introduction to the specifics of medical translation through advanced intensive translation practice of specialized medical texts. Translation from Spanish into English will be prioritized, but translation from English into Spanish will also be practiced. The course will be taught in English and Spanish.

SPAN 4396 Community Interpreting, Spanish <> English 3 Credits
Course Tags: Spanish Major or Minor Elective
Corequisite(s): SPAN 4395.
Prerequisite(s): SPAN 4393, SPAN 4394.
This course offers an introduction to interpreting in community settings, emphasizing medical and legal contexts. Sight translation, consecutive interpreting, and simultaneous interpreting will be practiced. The course will be taught in English and Spanish.

SPAN 4999 Capstone Seminar 3 Credits
Course Tags: Latinx, Latin American and Caribbean Studies Minor Elective
Prerequisite(s): Senior standing.
This course 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.

Special Education (SPED)

SPED 1010 Fairfield/Westport Transition 0 Credits

SPED 4403 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. Crosslisted with SPED 5403.

SPED 4410 Autism Spectrum Disorders: Theories and Interventions 3 Credits
This 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.Graduate equivalent: SPED 5410.

SPED 4411 Introduction to Individuals with Intellectual Disabilities 3 Credits
This course is designed to advance candidates' understanding and knowledge of intellectual and developmental disabilities by critically examining theories and research regarding the psychological, sociological, and educational aspects of individuals with intellectual and developmental disabilities. Candidates are expected to display levels of competency and proficiency in all three aspects. Graduate equivalent: SPED 5411.

SPED 4413 Theories of and Introduction to Learning Disabilities 3 Credits
This course introduces students to the area of learning disabilities, exploring various theoretical constructs pertaining to numerous facets of the disorder (e.g., cognition, executive function, attention deficits, etc.), by tracing the history of its development and discussing current issues about the definition and the types of learning disabilities. Educational and social emotional sequelae and implications of processing impairments on learning are examined in the context of the assessment-teaching process (includes a 5-hour field-based project). Graduate equivalent: SPED 5413.

SPED 4417 Introduction to Children and Youth with Emotional Disturbances 3 Credits
This core course introduces candidates to the area of emotional or behavioral disorders (EBD) by examining symptoms, etiology, diagnostic criteria, and assessment techniques of students K-12 who exhibit social, emotional, and behavioral deficits. Emphasis is placed on social and emotional development, the process of identifying students with EBD, analysis of behavior (ABA) and functional behavioral assessment (FBA), development of individual educational plans (IEPs) and instructional strategies designed to address the social and academic needs of students with EBD. This course includes a 2.5-hour field component. All students must have criminal clearance prior to registration. Graduate equivalent: SPED 5417.

SPED 4419 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. Graduate Equivalent: SPED 5419.

SPED 4432 Management Techniques in Special Education 3 Credits
Prerequisite(s): EDUC 2201, EDUC 3350, SPED 4410, SPED 4411, SPED 4413, SPED 4417.
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. Graduate Equivalent: SPED 5432.

SPED 4486 Foundations of Language and Literacy - Principles and Practices of Evidence Based Literacy Instruction 3 Credits
This course examines the foundational concepts, theories, and empirical research explaining how oral language supports the development of accurate and fluent word reading. Candidates analyze the relationships among phonological, orthographic, and morphological systems and their collective role in shaping word recognition, decoding, and spelling development. Key topics include phonological and phonemic awareness, the alphabetic principle, orthographic mapping, and reading fluency. Emphasis is placed on understanding how these skills interact during reading acquisition and how weaknesses in each area contribute to reading difficulties and dyslexia. Candidates learn to interpret data from state [1] approved and research-based assessments and to select and implement evidence-based instructional routines that strengthen decoding, word recognition, and fluency for beginning and struggling readers. Cross-listed with RLDV 5486. Graduate equivalent: SPED 5486.

SPED 4487 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. Graduate Equivalent: SPED 5487.

SPED 4534 Skill Development for Individualized Educational Plans 3 Credits
Prerequisite(s): EDUC 2201, EDUC 3350, SPED 4410, SPED 4411, SPED 4413, SPED 4417.
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. Graduate Equivalent: SPED 6534.

SPED 4537 Curriculum and Methods for Diverse Learners 3 Credits
Prerequisite(s):SPED 4534/SPED 6534.
This course examines curriculum as the organized framework of standards, content, instructional methods, materials, and assessments that guide teaching and learning across academic domains, including Language Arts and Math. Candidates learn how to evaluate instructional programs and materials for alignment with research-based and High Leverage Practices, and to modify curriculum, as needed, to address students' unique learning needs. Candidates are taught to develop systematic and explicit lessons that reflect the gradual release model, and how to select and implement accommodations and modifications that promote access and expression for diverse learners in remedial, inclusive, and special education settings. Cross-listed with RLDV 5585. Graduate equivalent: SPED 6537

SPED 4561 Title Tests, Measurement, and Diagnostic Procedures for Educational and Instructional Decision-Making 3 Credits
This course introduces candidates to the principles and practices of tests and measurement as applied to comprehensive multidisciplinary evaluations in general and special education. Candidates study the types and purposes of assessment, including universal screeners, progress-monitoring tools, standardized tests, curriculum-based measures, and diagnostic assessments of cognitive, academic, and behavioral functioning. Emphasis is placed on the foundations of test construction, administration, scoring, and interpretation, with attention to reliability, validity, standardization, scaling, and fairness. Through applied practice, candidates learn to administer, score, and interpret a wide range of assessments to support diagnostic decision-making, eligibility determinations, and instructional planning within multi-tiered systems of support (RTI/MTSS)and special education. Cross-listed with RLDV 5583. Graduate equivalent: SPED 6561.

SPED 4565 Evidenced-Based Strategies in the Inclusive Classroom 3 Credits
Prerequisite(s): SPED 3350.
This course builds on the foundational knowledge about exceptional learners examined during SPED 3350, 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. Graduate Equivalent: SPED 6565.

SPED 4953 Student Teaching in Special Education 6 Credits
Prerequisite(s): EDUC 2201, EDUC 3350, SPED 4410, SPED 4411, SPED 4413, SPED 4417.
This course consists of a semester-long, full time 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 Practicum/DSAP Seminar (SPED 4954) 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. Graduate Equivalent: SPED 6953.

SPED 4954 Student Teaching/DSAP Seminar in Special Education 3 Credits
Prerequisite(s): EDUC 2201, EDUC 3350, SPED 4410, SPED 4411, SPED 4413, SPED 4417.
Participants take this weekly seminar concurrently with student teaching/DSAP. Although much of the seminar's subject matter flows from the ongoing student teaching/DSAP 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. Graduate Equivalent: SPED 6954.

SPED 4999 Comprehensive Examination in Special Education 0 Credits
Prerequisite(s): EDUC 2201, EDUC 3350, SPED 4410, SPED 4411, SPED 4413, SPED 4417.
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. Graduate Equivalent: SPED 6999.

SPED 5401 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.

SPED 5403 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. Crosslisted with SPED 4403.

SPED 5410 Autism Spectrum Disorders: Theories and Interventions 3 Credits
This 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. Undergraduate equivalent: SPED 4410.

SPED 5411 Introduction to Individuals with Intellectual Disabilities 3 Credits
This course is designed to advance candidates' understanding and knowledge of intellectual and developmental disabilities by critically examining theories and research regarding the psychological, sociological, and educational aspects of individuals with intellectual and developmental disabilities. Candidates are expected to display levels of competency and proficiency in all three aspects. Undergraduate equivalent: SPED 4411.

SPED 5413 Theories of and Introduction to Learning Disabilities 3 Credits
This course introduces students to the area of learning disabilities, exploring various theoretical constructs pertaining to numerous facets of the disorder (e.g., cognition, executive function, attention deficits, etc.), by tracing the history of its development and discussing current issues about the definition and the types of learning disabilities. Educational and social emotional sequelae and implications of processing impairments on learning are examined in the context of the assessment-teaching process (includes a 10-hour field-based project). Undergraduate equivalent: SPED 4413.

SPED 5417 Introduction to Children and Youth with Social and Emotional Disturbances 3 Credits
This core course introduces candidates to the area of emotional or behavioral disorders (EBD) by examining symptoms, etiology, diagnostic criteria, and assessment techniques of students K-12 who exhibit social, emotional, and behavioral deficits. Emphasis is placed on social and emotional development, the process of identifying students with EBD, analysis of behavior (ABA) and functional behavioral assessment (FBA), development of individual educational plans (IEPs) and instructional strategies designed to address the social and academic needs of students with EBD. This course includes a 5-hour field component. All students must have criminal clearance prior to registration. Undergraduate equivalent: SPED 4417.

SPED 5419 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 TSLA 5419. Undergraduate Equivalent: SPED 4419.

SPED 5432 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. Undergraduate Equivalent: SPED 4432.

SPED 5486 Foundations of Language and Literacy: Principles and Practices of Evidence-Based Literacy Instruction 3 Credits
This course examines the foundational concepts, theories, and empirical research explaining how oral language supports the development of accurate and fluent word reading. Candidates analyze the relationships among phonological, orthographic, and morphological systems and their collective role in shaping word recognition, decoding, and spelling development. Key topics include phonological and phonemic awareness, the alphabetic principle, orthographic mapping, and reading fluency. Emphasis is placed on understanding how these skills interact during reading acquisition and how weaknesses in each area contribute to reading difficulties and dyslexia. Candidates learn to interpret data from state approved and research-based assessments and to select and implement evidence-based instructional routines that strengthen decoding, word recognition, and fluency for beginning and struggling readers. Cross-listed with RLDV 5486 Undergraduate equivalent: SPED 4486.

SPED 5487 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 RLDV 5487. Undergraduate Equivalent: SPED 4487.

SPED 5489 Principles and Practices of Structured Literacy 3 Credits
This course introduces candidates to the principles and practices of Structured Literacy and prepares candidates to deliver reading and writing instruction from a systematic, explicit orientation. In this hands-on class, candidates are introduced to high-impact instructional routines, student-centered activities, and lesson planning and delivery conventions aligned with the essential components of reading. Crosslisted with RLDV 5489.

SPED 6534 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. Undergraduate Equivalent: SPED 4534.

SPED 6537 Curriculum and Methods for Diverse Learners 3 Credits
Prerequisite(s):SPED 4534/SPED 6534.
This course examines curriculum as the organized framework of standards, content, instructional methods, materials, and assessments that guide teaching and learning across academic domains, including Language Arts and Math. Candidates learn how to evaluate instructional programs and materials for alignment with research-based and High Leverage Practices, and to modify curriculum, as needed, to address students' unique learning needs. Candidates are taught to develop systematic and explicit lessons that reflect the gradual release model, and how to select and implement accommodations and modifications that promote access and expression for diverse learners in remedial, inclusive, and special education settings. Cross-listed with RLDV 5585 Undergraduate equivalent: SPED 4537.

SPED 6550 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.

SPED 6561 Tests, Measurement, and Diagnostic Procedures for Educational and Instructional Decision-Making 3 Credits
This course introduces candidates to the principles and practices of tests and measurement as applied to comprehensive multidisciplinary evaluations in general and special education. Candidates study the types and purposes of assessment, including universal screeners, progress-monitoring tools, standardized tests, curriculum-based measures, and diagnostic assessments of cognitive, academic, and behavioral functioning. Emphasis is placed on the foundations of test construction, administration, scoring, and interpretation, with attention to reliability, validity, standardization, scaling, and fairness. Through applied practice, candidates learn to administer, score, and interpret a wide range of assessments to support diagnostic decision-making, eligibility determinations, and instructional planning within multi-tiered systems of support (RTI/MTSS)and special education. Cross-listed with RLDV 5583 Undergraduate equivalent: SPED 4561.

SPED 6565 Evidence-Based Strategies in the Inclusive Classroom 3 Credits
Prerequisite(s): EDUC 3350 or SPED 5403.
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.

SPED 6575 Developmental Literacy Remediation for Students in Grades 3+ 1 Credit
This course examines reading research and the five essential components of reading in relation to students in Grade 3+ with persistent phonological coding deficits. Candidates will learn about the principles and practices of Structured Literacy and multi-sensory language instruction through study of the Wilson Reading System (WRS), including student identification and placement, program implementation, progress monitoring, scheduling, creating a successful classroom environment, principles of language structure, and how to teach language with direct, multi-sensory methods. Cross-listed with RLDV 6575.

SPED 6576 Intensive Instruction I for the Non-Responsive Reader Using the Wilson Reading System 3 Credits
This course presents in detail how the principles and practices of multi-sensory, structured language instruction are applied to support the remedial reading needs of students with word-level deficits in Grades 3+ who have not adequately responded to intervention. This course features practical application of reading research, with particular emphasis on phonological awareness, phonics and spelling at the beginning levels of decoding and encoding. It also provided specific procedures to teach the following syllable types: closed, vowel-consonant-e, open, and consonant-le. The course includes additional topics on diagnostic teaching and differentiating instruction, program pacing, high frequency word instruction, vocabulary instruction, fluency instruction, dyslexia, listening and reading comprehension strategies, use of differentiated texts, and handwriting. Candidates explore the above in relation to Steps 1-6 of the Wilson Reading System (WRS). Cross-listed with RLDV 6576.

SPED 6577 Clinical Intensive Instruction I for the Non-Responsive Reader in Grades 3+ 1.5-3 Credits
This supervised practicum experience prepares candidates to effectively implement a multi-sensory structured language reading program with students in Grades 3-12 that present with significant word-level reading and spelling deficits, including those diagnosed with a language-based learning disability or dyslexia. Candidates will acquire a sophisticated working knowledge of the sound-symbol system of English (phonology) and its structure (morphology) as well as the use of specific diagnostic methods in teaching reading and spelling. This Wilson Reading System Steps 1-6 web-based practicum is supervised by a Wilson Credentialed Trainer. Cross-listed with RLD 6577.

SPED 6578 Intensive Instruction II for the Non-Responsive Reader Using the Wilson Reading System 3 Credits
This course is a continuation of SPED 6576 and presents in detail how the principles and practices of multi-sensory structured language instruction are applied to support the remedial reading needs of students with word-level deficits in Grades 3+ who have not adequately responded to intervention. This course features practical application of reading research, and expands upon the topics of phonological awareness, phonics and spelling at the beginning levels of decoding and encoding. It also provides additional opportunities to refine procedural skill associated with teaching the following syllable types: closed, vowel-consonant-e, open, and consonant-le. The course includes additional topics on diagnostic teaching and differentiating instruction, program pacing, high frequency word instruction, vocabulary instruction, fluency instruction, dyslexia, listening and reading comprehension strategies, use of differentiated texts, and handwriting. Candidates explore the above in relation to Steps 1-6 of the Wilson Reading System (WRS). Cross-listed with RLDV 6578.

SPED 6579 Clinical Intensive Instruction II for the Non-Responsive Reader in Grades 3+ 1.5-3 Credits
This supervised practicum experience is a continuation of SPED 6577 and prepares candidates to effectively implement a multi-sensory structured language reading program with students in Grades 3-12 that present with significant word-level reading and spelling deficits, including those diagnosed with a language-based learning disability or dyslexia. Candidates will acquire a sophisticated working knowledge of the sound-symbol system of English (phonology) and its structure (morphology) as well as the use of specific diagnostic methods in teaching reading and spelling. This Wilson Reading System Steps 1-6 web-based practicum is supervised by a Wilson Credentialed Trainer. Cross-listed with RLDV 6579.

SPED 6599 Seminar in Special Education 3 Credits
This advanced synthesizing seminar directs the candidate toward an in-depth study of special topics in the field, using a research-oriented approach. Open only to matriculated students in the Special Education program with permission from the candidate's university advisor and the Director of Special Education.

SPED 6900 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.

SPED 6951 Supervised Practica/DSAP in Structured Literacy and Dyslexia Intervention 3 Credits
Prerequisite(s): Permission of Instructor.
This supervised clinical practicum provides candidates with an intensive opportunity to apply a diagnostic-prescriptive approach to planning, implementing, and evaluating the efficacy of intensive, individualized reading and writing interventions for students with profiles characteristic of, or diagnoses of, dyslexia. Candidates conduct a literacy screening assessment and collaborate with faculty to develop an individualized instructional plan and progress-monitoring framework aligned to each student's strengths and areas of need, design an instructional scope and sequence, set measurable practicum goals, and implement a series of diagnostic-prescriptive lessons that explicitly address phonological awareness, decoding, spelling, fluency, comprehension, and written expression using evidence-based reading and writing practices, strategies, and routines. Candidates maintain detailed lesson records, monitor student progressing curriculum-based and diagnostic measures, and adjust instruction based on data trends. Faculty provide remote supervision and individualized feedback through scheduled video observations and conferencing sessions. The practicum culminates in a formal case presentation in which candidates synthesize assessment data, document student growth, and articulate recommendations and sample IEP goals and objectives for continued intervention. Cross-listed with RLDV 6951

SPED 6952 Practica/DSAP in Special Education 3 Credits
This course consists of an experiential opportunity for candidates pursuing a cross-endorsement or DSAP 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. Candidates fulfilling the cross-endorsement/DSAP 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/DSAP placement. For cross-endorsement and DSAP candidates only. Pass/Fall.

SPED 6953 Student Teaching in Special Education 3-6 Credits
This course consists of a semester-long, full time 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 Practicum/DSAP Seminar (SPED 6954) 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. Undergraduate Equivalent: SPED 4953.

SPED 6954 Student Teaching/DSAP Seminar in Special Education 3 Credits
Corequisite(s): SPED 6953.
Participants take this weekly seminar concurrently with student teaching/DSAP. Although much of the seminar's subject matter flows from the ongoing student teaching/DSAP 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. Undergraduate Equivalent: SPED 4954.

SPED 6990 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.

SPED 6999 Comprehensive Examination in Special Education 0 Credits
Prerequisite(s): SPED 5410, SPED 5411, SPED 5413, SPED 5417.
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. Undergraduate Equivalent: SPED 4999.

Sports Business (SPBU)

SPBU 2980 Sports Business Internship 1 Credit
Prerequisite(s): Sophomore standing.
Students gain practical experience in sports business. Students must be matriculated in the Dolan School of Business and have a GPA of 2.5 or higher. Enrollment by permission only.

SPBU 3980 Sports Business Internship 3 Credits
Prerequisite(s): Junior standing.
Students gain practical experience in sports business. Students must be matriculated in the Dolan School of Business and have a GPA of 2.5 or higher. Enrollment by permission only.

Statistics (STAT)

STAT 2200 Statistical Computing 3 Credits
Prerequisite(s): MATH 1121 or MATH 1141 or MATH 1171.
This course provides students with an introduction to computing in a popular statistical programming language such as R. Topics include data structures, reading and storing data, data transformation and manipulation, accessing and using packages, conditionals, loops, functions, graphics and data visualization, and introductory statistical methods for data analysis. No previous programming experience is required.

STAT 2218 Statistics II 3 Credits
Prerequisite(s): ECON 3278 or MATH 2217 or PSYC 2810 or PUBH 2217.
This course is a continuation of Statistics I and covers additional statistical concepts used in the physical sciences, social sciences, business, and health studies. Topics include, but are not limited to, regression analysis (multiple regression, logistic regression, and regression with categorical predictors), analysis of variance (one-way and two-way models), analysis of categorical variables (measures of association, chi-squared tests, odds ratio, and relative risk), and non-parametric tests. One professional statistical package, such as R, will be used throughout the course. Students should have a laptop with the required software installed.

Studio Art (SART)

SART 1011 Introduction to Sculpture 3 Credits
Course Tags: Graphic Design: Studio Arts
Fee: $130 Studio Arts 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.

SART 1012 Introduction to Drawing 3 Credits
Course Tags: Educational Studies Cognate, Graphic Design: Studio Arts
Fee: $130 Studio Arts 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.

SART 1013 Introduction to Figure Drawing 3 Credits
Course Tags: Graphic Design: Studio Arts
Fee: $130 Studio Arts Materials Fee
his 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 through line, value, perspective, 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.

SART 1014 Introduction to Printmaking 3 Credits
Course Tags: Graphic Design: Studio Arts
Fee: $155 Studio Arts Materials Fee
Through an interdisciplinary approach in this introductory printmaking course, students will discover new ways of organizing visual space and reflect on the myriad of approaches to making prints. Through hands-on studio projects such as monoprinting and photographic technique, visual thinking will be emphasized as a creative practice that augments intellectual thought and how knowledge is socially constructed within and beyond the studio. Students will be asked to consider the ethical implications of decisions made within our globally interconnected society, including the selection of assignment materials.

SART 1015 Introduction to Painting 3 Credits
Course Tags: Educational Studies Cognate, Graphic Design: Studio Arts
Fee: $130 Studio Arts Materials Fee
This course introduces the methods, techniques, and language of painting. Students explore principles of color, construction of pictorial space, light and shadow, surface, texture, and composition. Students paint primarily from observation and employ representational and abstract modes. Exploration of materials and historical and contemporary approaches to painting are integral parts of directed and individual investigations. This course is designed to be open and accessible to all students.

SART 1016 Introduction to 2-D Design 3 Credits
Course Tags: Graphic Design: Studio Arts
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.

SART 1101 Digital Tools in Art Making 3 Credits
Course Tags: Graphic Design: Studio Arts
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.

SART 1102 Experimental Drawing Practices 3 Credits
Course Tags: Graphic Design: Studio Arts
Fee: $130 Studio Arts 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.

SART 1105 Color Workshop 3 Credits
Course Tags: Graphic Design: Studio Arts
Fee: $130 Studio Arts 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.

SART 1132 Sculpture: Construction and Subtraction 3 Credits
Course Tags: Graphic Design: Studio Arts
Fee: $130 Studio Arts 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.

SART 1133 Alternative Processes Photography 3 Credits
Course Tags: Graphic Design: Studio Arts
Fee: $155 Studio Arts Materials Fee
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.

SART 1134 Digital Photography 3 Credits
Course Tags: Graphic Design: Studio Arts
Fee: $155 Studio Arts Materials Fee
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 over-ride 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.

SART 1136 Artist Book Construction 3 Credits
Course Tags: Graphic Design: Studio Arts
Fee: $130 Studio Arts Materials Fee
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.

SART 1137 Motion and Time-Based Art 3 Credits
Course Tags: Graphic Design: Studio Arts
Fee: $155 Studio Arts Materials Fee
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.

SART 1138 From Drawing to Painting 3 Credits
Course Tags: Graphic Design: Studio Arts
Fee: $130 Studio Arts 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.

SART 1139 Watercolor 3 Credits
Course Tags: Graphic Design: Studio Arts
Fee: $130 Studio Arts Materials Fee
This course is an introduction to the methods, techniques and language of watercolor. In exploring the fundamentals of watercolor this course guides students to develop their abilities to closely examine what they see, and explore color through transparency and layering of washes. Value, composition, color temperature, transparency, and wet into wet processes are explored. This course is designed to be open and accessible to all students.

SART 1140 Darkroom Photography 3 Credits
Course Tags: Graphic Design: Studio Arts
Fee: $155 Studio Arts Materials Fee
This course is an introduction to the practice of photography by means of film and the darkroom. Students will understand the action of light on film and paper as an art medium. Basic principles and practices of black and white film, intention, processing film and prints, exposure, and printing are instructed and built upon. Students will begin to learn the mechanics and vernacular of analog photography while beginning to understand their own personal aesthetics by completing visual exercises and a final portfolio.

SART 2229 Continuing Work in Painting and Drawing 3 Credits
Course Tags: Magis Core Exploration: VPA
Prerequisite(s): one of the following: SART 1012, SART 1013, SART 1101, SART 1102, SART 1138, SART 1105, SART 1015, SART 1139, or instructor permission.
This course builds on the experience of Introduction to Painting and Introduction to Drawing. Focus is on developing pictorial construction with a range of expressive points of view and variety of materials in exploring studio practice. Reflecting on imagination and what is observed, students participate in discussion of these projects and develop a language of aesthetic awareness and sensitivity for individual and collective expression.

SART 2230 Advanced Painting 3 Credits
Course Tags: Graphic Design: Studio Arts
Fee: $130 Studio Arts Materials Fee
Prerequisite(s): SART 1015 or SART 2229.
This course builds on the experience of Introduction to Painting through practice and exploration of materials, and discovery of subject matter. Further investigation of color in relationship to paint handling is emphasized. Individual direction is developed in consultation with the instructor. Individual and group critiques support students toward individuality of expression.

SART 2231 Advanced Printmaking 3 Credits
Course Tags: Graphic Design: Studio Arts
Fee: $155 Studio Arts Materials Fee
Prerequisite(s): SART 1014 or SART 1136.
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.

SART 2232 Advanced Sculpture 3 Credits
Course Tags: Graphic Design: Studio Arts
Fee: $130 Studio Arts Materials Fee
Prerequisite(s): SART 1011 or SART 1132.
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.

SART 2233 Advanced Photography 3 Credits
Course Tags: Graphic Design: Studio Arts
Fee: $155 Studio Arts Materials Fee
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.

SART 2235 Advanced Drawing 3 Credits
Course Tags: Graphic Design: Studio Arts
Fee: $130 Studio Arts Materials Fee
Prerequisite(s): SART 1012 or SART 1013 or SART 1101 or SART 1102 or SART 1138.
This course builds upon the experience of SART 1012 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.

SART 2900 Special Topics (Shell) 3 Credits
Course Tags: Graphic Design: Studio Arts
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.

SART 3299 Advanced Projects Seminar 3 Credits
Course Tags: Graphic Design: Studio Arts
Fee: $130 Studio Arts Materials Fee
Prerequisite(s): Three courses in studio art.
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.

SART 3980 Studio Internship 1-3 Credits
Course Tags: Graphic Design: Studio Arts
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.

SART 3990 Independent Study 1-3 Credits
Course Tags: Graphic Design: Studio Arts
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.

SART 4301 Exhibition Seminar 3 Credits
Course Tags: Graphic Design: Studio Arts
Fee: $130 Studio Arts Materials Fee
Prerequisite(s): Senior standing.
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 studio art majors only.

Summer Pre-College Programs (SHS)

SHS 0011 Arts and Sciences Pre-College 0 Credits
Students will explore the many options for majors and minors available to new undergraduate students, from communications and psychology to biology and chemistry and more. What fields are emerging in the humanities, arts, and sciences, and what kinds of career opportunities might be available when you graduate? A different theme will be offered each summer.

SHS 0013 Nursing: The Possibilities Are Endless 0 Credits
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 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 (TAXN)

TAXN 6505 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.

TAXN 6510 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.

TAXN 6515 Property Transactions: Regulatory and Tax Issues 3 Credits
This course covers concepts that are relevant in practice for both a public and private accounting and taxation setting. Drawing on and integrating complimentary law and tax topics, the course will consider issues such as: real estate used in a trade or business or held for the production of rental income, ownership of a principal residence, and indirect ownership of real-estate interests in the form of securities under federal law, including a REIT, as well as secured transactions and bankruptcy. Crosslisted with ACCT 6515.

TAXN 6520 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.

TAXN 6525 Law of Commercial Transactions: Advanced Studies in the Uniform Commercial Code 3 Credits
This course provides students with a foundation in The Law of Commercial Transactions. The course begins with a review of the principles of common law contracts which underpins many aspects of the Uniform Commercial Code. This course entails an advanced study of several provisions of the Uniform Commercial Code (hereinafter referred to as "UCC" or "the Code"). The sections of the Code to be studied include Article 2 Sales, Article 2A Leases of Goods, Articles 3 and 4 Negotiable Instruments and Bank Deposits and Collections, and Article 9 Secured Transactions. With an emphasis on case analyses and/or problem sets, 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 the UCC. Crosslisted with ACCT 6525.

TAXN 6530 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.

TAXN 6540 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.

TAXN 6550 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.

TAXN 6575 Data Analytics in Accounting 3 Credits
This course covers the application of data analytics techniques in assurance and tax. Students will gain hands-on experience applying contemporary data analysis techniques to collect, clean and analyze large sets of data in order to address discipline-specific problems. Students will also learn to use appropriate visualizations and reports to meaningfully present analysis results.

TAXN 6585 Effective Communications for Accounting Professionals 3 Credits
In this course, students will practice communicating effectively in accounting settings. Topics include considering the communication needs of accountants' diverse audiences, adapting communications to varying purposes, and writing and speaking clearly and concisely in both preparing accounting-specific documents and in presenting accounting-focused information. Crosslisted with ACCT 6585.

TAXN 6900 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.

TAXN 6970 Research on Contemporary Issues in Taxation 3 Credits
This research seminar engages students in utilizing an analytical lens to develop and present recommendations for emerging issues, recent pronouncements of tax rule-making bodies, and/or unresolved controversies in contemporary tax policy and practice. Students apply AI-informed methods of data mining, information synthesis, forecasting, and evaluation to discipline-specific questions in taxation. Emphasis is placed on the systematic evaluation of AI-generated analyses and recommendations, including their accuracy, bias, and implications for organizational decision-making and performance. Alongside developing their analytical and critical thinking skills, students strengthen their professional communication skills.

TAXN 6980 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 their 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.

TAXN 6990 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 Second Language Acquisition (TSLA)

TSLA 5419 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 SPED 5419.

TSLA 5420 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.

TSLA 5422 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.

TSLA 5423 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.

TSLA 5436 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.

TSLA 5441 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 EDUC 5441.

TSLA 5453 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.

TSLA 5461 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.

TSLA 5467 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. This course is approved for the Elementary Foreign Language cross-endorsement.

TSLA 5475 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.

TSLA 5477 Culture and Second Language Acquisition 3 Credits
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.

TSLA 5527 Testing and Assessment in TESOL and Bilingual Programs 3 Credits
Designed for TESOL and bilingual teachers, this course provides an overview of formal and authentic techniques for assessing second language and bilingual proficiency. Participants evaluate standardized instruments currently in use; analyze techniques for assessing factors relevant to second language and bilingual proficiency such as academic achievement, language aptitude, and competence in reading, writing, speaking, and listening; and discuss controversial issues affecting language assessment.

TSLA 5951 Elementary TESOL/Bilingual Advanced Practicum 3 Credits
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.

TSLA 5952 Secondary TESOL/Bilingual Advanced Practicum 3 Credits
This practicum provides TESOL/Bilingual Education candidates with opportunities for supervised internships in the TESOL or bilingual secondary classroom settings. Students complete a minimum of 48 hours of fieldwork 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.

TSLA 6421 Linguistics and Language Assessment 3 Credits
This course focuses on the instructional application of the theoretical concepts learned in TSLA 5420 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.

TSLA 6439 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 and understand 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.

TSLA 6451 Infusing Content Language into TESOL/Bilingual Curriculum (Grades 4-12) 3 Credits
Designed for ESL and bilingual teachers, this course examines the discourse of content subjects and implications for curriculum development and instructional planning in TESOL/Bilingual programs. Topics include strategies to develop academic language, oral presentation skills, content specific syntax and grammar, and writing. Participants will examine textbooks and develop a curriculum unit that infuses content-area language into the ESL program. Procedures for assessing student progress in content area language development will be discussed.

TSLA 6504 English Language Learners in the Regular Classroom 3 Credits
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.

TSLA 6522 Emergent Literacy in the TESOL/Bilingual Curriculum (PK-3) 3 Credits
This course is designed to prepare childhood education (PK-3) teachers to work effectively with culturally diverse children who are learning English as an additional language in preschool and school contexts. The course focus is on first and second language development in the young child with implications for emergent literacy curriculum development and instructional planning. Culture and child-rearing practices, their impact on schooling, and strategies to build successful partnerships with families and communities will also be discussed.

TSLA 6527 Testing and Assessment in TESOL and Bilingual Programs 3 Credits
Designed for TESOL and bilingual teachers, this course provides an overview of formal and authentic techniques for assessing second language and bilingual proficiency. Participants evaluate standardized instruments currently in use; analyze techniques for assessing factors relevant to second language and bilingual proficiency such as academic achievement, language aptitude, and competence in reading, writing, speaking, and listening; and discuss controversial issues affecting language assessment.

TSLA 6528 Second Language Curriculum Development 3 Credits
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.

TSLA 6530 Content Language and Reading Acquisition for English Language Learners and Special Needs Students 3 Credits
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 PK-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 RLDV 6530.

TSLA 6581 Directed Observation and Supervised Student Teaching 6 Credits
This course is for TESOL candidates who have been approved for student teaching in TESOL. Candidates observe in classrooms and teach 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.

TSLA 6582 TESOL Student Teaching and DSAP 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.

TSLA 6588 Directed Observation I for TESOL/DSAP Candidates 3 Credits
Prerequisite(s): 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, their 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.

TSLA 6589 Directed Observation II for TESOL/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, their 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.

TSLA 6900 Special Topics (Shell) 1-3 Credits
Prerequisite(s): Completion of 12-15 credits of program coursework.
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.

TSLA 6950 6th Year Certificate Advanced Research Capstone 3 Credits
Prerequisite(s): 18 credits of TESOL coursework.
TSLA 6950 6th Year Advanced Research Capstone is the first in a two-course sequence. Students identify a practical problem in TESOL/Bilingual k-12 classroom teaching and design a research proposal to address that problem. In TSLA 6951 6th Year Advanced Research Practicum, they will implement the proposal, collect and analyze data, discuss findings, and write the final research paper. Because TSLA 6951 requires the implementation of the action research project, it is recommended that students have access to a k-12 research population.

TSLA 6951 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.

TSLA 6990 Independent Study 1-3 Credits
Candidates complete individual study with the written permission of the department chair, having submitted their proposals prior to registration.

TSLA 6999A Capstone Seminar in Inclusive Language Teaching 3 Credits
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 deepen 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.

TSLA 6999B Comprehensive Examination in TESOL and Bilingual Education 0 Credits
The comprehensive examination provides candidates with an opportunity to critically analyze ideas and practices studied in the TESOL or bilingual programs. Candidates will synthesize and apply the knowledge and understandings gained in the program to address a critical issue related to educating English learners and demonstrate their ability to advocate for ELs and provide leadership as TESOL and bilingual educators. Candidates are strongly encouraged to meet with their advisor before they register for the comprehensive examination.

Theatre (THTR)

THTR 1011 Exploring Theatre 3 Credits
Course Tags: Educational Studies Cognate, Magis Core: Writing Across Curriculum
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.

THTR 1030 Acting I 3 Credits
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. The class also introduces vocal technique for stage, the key ingredient to theatrical storytelling.

THTR 1106 Theatre Management 3 Credits
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.

THTR 1111 Performance Histories I: Origins to Shakespeare 3 Credits
We explore the great theatre of the world, from ancient Athens, medieval Japan, to the Renaissance. All theatre is social justice theatre, galvanizing audiences to empathize with characters braving injustices through great entertainment. Our journey through the world's great theatre will identify and analyze the values, beliefs, practices, and privileges of our own and other societies and what makes compelling entertainment. Theatre performances, live and online, included.

THTR 1112 Performance Histories II: The Enlightenment to the Present 3 Credits
We explore the Great Theatre of the World from nineteenth-century European modernism (Henrik) to the epic theatres of Asia (Hanuman) to hit Broadway musicals (Hamilton) through the lens of social justice. All theatre is social justice theatre, designed to galvanize audiences to empathize with characters braving injustices through compelling entertainment that engages both hearts and minds. Theatre provides a window into the people of our own and other times and places—their passions, their needs, their troubles—by dramatizing conflicts of power, oppression, race, gender, and class. Six theatre performances, live and online, are included.

THTR 1135 Modern and Contemporary Dance 3 Credits
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.

THTR 1137 Acting for the Camera 3 Credits
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. Cross-listed with FTMA 1137.

THTR 1138 Folk and Social Dance 3 Credits
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.

THTR 1150 Entertainment Technology 3 Credits
This course is an introduction to the technical aspects of theatre, film, and television. Students learn basic techniques of scenic construction, rigging, sound, projection and stage lighting. Lectures serve as foundational information for a series of lab sessions held throughout the semester in the Scene Shop. The required labs provide hands-on learning for construction, lighting, and other aspects of technology used in live entertainment. Lab schedules are created during the first weeks of class, in consultation with instructor. Cross-listed with FTMA 1150.

THTR 1152 Costume Construction for Stage & Screen 3 Credits
Learn to make amazing garments, for the stage, for film, or for your own purposes! Costume construction is a vital career in the entertainment industry, combining creativity and hands-on craftmanship. Through readings, lecture, discussion, and hands-on lab work, students will be introduced to the principles of theatrical garment construction, and learn basic costume-making techniques. Using the textbook as a lab notebook, students will collect sewing samples, notes, textile samples, measurement charts and paper pattern-making, which will then inform their final project: a sewn garment. Students will participate on Wardrobe Crew for a Theatre Program production or a Capstone Film. Cross-listed with FTMA 1152.

THTR 1154 Theatrical Makeup for Stage & Screen 3 Credits
Expert application of theatrical makeup is a critical tool for the professional actor, and a rewarding career path in theatre and film. Through lecture, discussion, and hands-on lab work you will be introduced to the principles of stage makeup design and application. Combining research, critical analysis, and hands-on techniques, students will develop makeup application skills using their own faces. Whether as a theatre artist or as an audience member, this class will lead to more sophisticated understanding of makeup in both theatre and film. Students will participate on Makeup/Hair Crew for a Theatre Fairfield production or a Capstone Film. Cross-listed with FTMA 1154.

THTR 1155 Design for Stage & Screen 3 Credits
Course Tags: Graphic Design: Theatre
This class explores the visual work of theatre and film designers: how costumes communicate a character's personality, how scenery establishes an atmosphere, and how lighting illuminates both literally and metaphorically. Students study how design functions by working on a series of design projects for both stage and film scripts. In addition, the course closely examines the creative process that underpins the work of all artists. Crosslisted with FTMA 1155.

THTR 1158 Scene Painting 3 Credits
Course Tags: Graphic Design: Theatre
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 Program production.

THTR 1200 American Women Playwrights 3 Credits
Course Tags: American Studies: Gateway, American Studies: Visual and Performing Arts, English Literature After 1800, 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. Crosslisted with ENGL 1200.

THTR 1250 American Drama 3 Credits
Course Tags: American Studies: Gateway, American Studies: Visual and Performing Arts, English Literature After 1800, Magis Core Exploration: Literature, Magis Core: Social Justice I
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 and see over fifteen plays that grapple with issues of race, ethnicity, gender, class, and what it means to be an American. The course includes theatre trips. Cross-listed with ENGL 1250.

THTR 1951 Theatre Practicum 0-1 Credits
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.

THTR 1952 Theatre Fairfield Production Practicum 0-1 Credits
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.

THTR 2210 Theatre in Production 3 Credits
Students take this course in conjunction with a particular Theatre Program 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.

THTR 2215 American Musical Theatre: History and Practice 3 Credits
Prerequisite(s): 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.

THTR 2230 Advanced Acting 3 Credits
Prerequisite(s): THTR 1030.
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.

THTR 2250 Fashion Forward: A History of Fashionable Dress in Global Context 3 Credits
Course Tags: Magis Core Exploration: VPA, Women, Gender, and Sexuality Studies: Gender Focused
This course examines how clothes are a tool of identity and power, by exploring fashions of both Europe and the Global South. The history of fashion is the history of humanity. What we choose to wear, how we style our hair, and how we decorate our bodies, has been a factor of our daily lives for millennia. Fashion is never "just clothes." Our clothes tell ourselves and the world who we are, where we see ourselves in our community, and how our fellow humans view us. Through readings, discussions, research and writings, students will discover the incredible power of dress. Cross-listed with AHST 2250.

THTR 2253 Costume Design 3 Credits
Course Tags: Graphic Design: Theatre
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 or film, 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 designs in historical accuracy or consistent world-building.

THTR 2256 Stage Lighting 3 Credits
Course Tags: Graphic Design: Theatre
Prerequisite(s): THTR 1150 or THTR 1155.
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.

THTR 2288 Scene Design 3 Credits
Course Tags: Graphic Design: Theatre
Prerequisite(s): THTR 1155.
In a play or film, 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.

THTR 2800 Queer Theatre and Performance 3 Credits
Following a queerly designed course schedule that pushes against normative constructs such as linear time, biological continuance and "progress," as measured by notions of capitalist "success," students will read and unpack a diverse selection of theoretical musings, play scripts, performance texts, descriptions, reviews, and videos in an effort to compose a working definition of "queer performance." Readings, topics and assignments have been curated in an attempt to provide students with a global, fluid view of queer performance practice rather than a comprehensive, historiographic genealogy.

THTR 2900 Special Topics 3 Credits
Course Tags: Magis Core Exploration: VPA
This dynamic dance course is designed for students of ALL LEVELS looking to enhance their technical skills while embracing their unique artistic voice. This course aims to build and/or enhance upon a strong technical foundation utilizing conditioning exercises, flexibility exercises, and the rudiments of ballet, jazz, and commercial dance techniques. We will do a deep dive into how the body moves and how muscles work to support the body when dancing. This will inherently shift the focus away from finding the "perfect dancer body" and towards how to utilize each individual body's strengths and weaknesses to create an expressive and powerful dancer. Physical well-being will be a focus every week as we explore these technical elements. Dancers will also learn choreography in the aforementioned styles and be challenged to execute them artistically.

THTR 3240 Directing 3 Credits
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.

THTR 3980 Internship 1-3 Credits
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.

THTR 3990 Independent Study 1-4 Credits
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.

THTR 4005 Curriculum Development in Theatre Education 3 Credits
This course is designed for those who want to teach K-12 students. Students explore a variety of democratic approaches to teaching, as well as pivotal ideas in the field of Education. Students develop a framework for analyzing and assessing learners, curriculum design, and teaching strategies based on readings and observation of children in a classroom setting. Students learn to effectively teach thematic materials and explore how to create a positive, safe learning community. The course includes 10-15 hours of field experience in grades preK-12.

THTR 4010 Teaching Methodologies in Theatre Education 3 Credits
This course is designed for those who want to teach K-12 students. This course explores how theatre facilitates learning in educational, cultural, and community settings. We will examine key aspects of the field's historical development through the work of prominent leaders, the relationships between theories of dramatic art and general education principles, and the main concepts, pedagogies, and conventions of the field of Educational Theatre. This course will also look at how we keep our artistry inspired by those practitioners who came before us, while also keeping our artistry at the forefront of what we do.

THTR 4999 Theatre Capstone 3 Credits
We read provocative works commenting on two basic ideas: the human impulse to make art, and various theories of theatre: what makes good theatre, how we should alter the theatre-making process, and how theatre fits into the grand scheme of our culture. The theories we read will help shape and define our own thoughts, while improving writing skills. We also examine post-graduation options, whether they are in the theatre world or some other industry. Students complete a Capstone Project designed to showcase their personal artistry, intellect, and expertise. It will consist of written component, as well as a performance/presentation.

Visual and Performing Arts (VIPA)

VIPA 3980 VIPA Internship 1-3 Credits
The Visual and Performing Arts internship program is designed to combine hands-on experience in areas related to VPA's majors and minors (Art History & Visual Culture; Film, Television and Media Arts; Music; Theatre; Studio Art; Graphic Design) with academic instruction. Interns work 10 to 15 hours a week at their internship site, under the direction of an on-site supervisor. Interns critically examine their internship experience in light of their major or minor during the internship workshops and through the related course assignments.

Women, Gender, and Sexuality Studies (WGSS)

WGSS 1101 Introduction to Women, Gender, and Sexuality Studies 3 Credits
Course Tags: Magis Core: Interdisciplinary, Women, Gender, and Sexuality Studies: Gender Focused
This course serves as an introduction to the interdisciplinary study of women, gender, and sexuality. Students will explore the constructed nature of these categories and seek to place them in both historical and contemporary frameworks. By extension, this course will critically examine intersecting systems of power within a global and U.S. context. Topics will include politics and health, work and economics, media and culture, as well as religion and family.

WGSS 3980 Internship 3 Credits
Course Tags: 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. Enrollment by permission only.

WGSS 4990 Independent Study 1-3 Credits
Course Tags: 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. Enrollment by permission only.

WGSS 4999 Capstone Seminar 3 Credits
Course Tags: Magis Core: Interdisciplinary, Peace and Justice Studies, Women, Gender, and Sexuality Studies: Gender Focused
Prerequisite(s): Junior standing.
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.

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