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COURSE DESCRIPTIONS

***Magis* Core signature elements attributes are often placed on individual sections and may not be listed in course descriptions. Please use the Web Registration portal to browse attributes that may be instructor- or semester-specific.**

A

- Accounting (ACCT)
- American Studies (AMST)
- Analytics (DATA)
- Anthropology (ANTH)
- Applied Ethics (AETH)
- Arabic (ARBC)
- Art History (AHST)
- Asian Studies (ASST)

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- Nursing: Anesthesia (NSAN)
- Nursing: Midwifery (NSMW)
- Nutrition (NUTR)

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- Philosophy (PHIL)
- Physics (PHYS)
- Politics (POLI)
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- Psychology, CAS (PSYC)
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- Russian, Eastern European, and Central Asian Studies (RECS)

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T

- Taxation (TAXN)
- TESOL and Second Language Acquisition (TSLA)
- Theatre (THTR)

W

- Women, Gender, and Sexuality Studies (WGSS)

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. Previously AC 0011.

ACCT 1012 Introduction to Management Accounting 3 Credits

Prerequisite: 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. Previously AC 0012.

ACCT 2203 Intermediate Accounting I 3 Credits

Prerequisite: 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. Previously AC 0203.

ACCT 2204 Intermediate Accounting II 3 Credits

Prerequisite: 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. Previously AC 0204.

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

Prerequisite: 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. Previously AC 0265

ACCT 2980 Internship 1 Credit

Prerequisite: 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. Previously AC 0393-0394.

ACCT 3265 Enterprise-wide Accounting Systems: Design and Control 3 Credits

Prerequisite: 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:** 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:** 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. Previously AC 0320.

ACCT 3320L Cost Management Lab 1 Credit**Corequisite:** 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. Previously AC 0320L.

ACCT 3330 Auditing 3 Credits**Prerequisite:** 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. Previously AC 0330.

ACCT 3343 Federal Income Taxation I 3 Credits**Prerequisite:** 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. Previously AC 0343.

ACCT 3344 Individual Taxation: Socioeconomic Applications 3 Credits**Prerequisites:** 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. Previously AC 0344.

ACCT 3345 Federal Income Taxation II 3 Credits**Prerequisites:** 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. Previously AC 0345.

ACCT 3380 Not-for-Profit Accounting 3 Credits**Attributes:** PANM Public Administration Nonprofit Management**Prerequisites:** 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. Previously AC 0380.

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:** 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. Previously AC 0391-0392.

ACCT 3990 Independent Study 0-6 Credits**Prerequisite:** Senior standing.

This course provides students with the opportunity to study and research a specialized topic under faculty guidance. Students must have a GPA of 2.5 or higher. Open to Accounting majors only. Enrollment by permission only. Previously AC 0397-0398.

ACCT 4310 Advanced Accounting 3 Credits**Prerequisites:** 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. Previously AC 0310.

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. Previously AC 0400.

ACCT 6500 Accounting Information for Decision-Making 3 Credits**Prerequisite:** 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. Previously AC 0500.

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. Previously AC 0510.

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. Previously AC 0520.

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. Previously MG 0512.

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. Previously AC 0530.

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. Previously AC 0550.

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. Previously AC 0555.

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. Previously AC 0560.

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. Previously AC 0565.

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. Previously AC 0570.

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. Previously AC 0580.

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. Previously AC 0585.

ACCT 6970 Research on Contemporary Issues in Accounting**3 Credits**

This course is a designated research course. In it students will investigate, analyze, develop, and present recommendations for emerging issues, recent pronouncements of accounting rule-making bodies and/or unresolved controversies relating to contemporary financial reporting. In doing so, students will consider institutional, historical, and international perspectives. In their research, students are expected to use authoritative resources (e.g., FASB and/or IASB pronouncements). The course is taught seminar style, with students leading the discussions of cases and current articles. Assignments are designed to develop students' written and oral communication skills, analytical skills, and critical thinking skills. Previously AC 0590.

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. Previously AC 0591.

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. Previously AC 0598.

American Studies (AMST)

AMST 2201 Roots of American Culture**3 Credits**

Attributes: MSID Magis Core: Interdisciplinary

Prerequisite: One American Studies Gateway course.

This course provides an introduction to the study of American culture. In familiarizing students with the variety of interdisciplinary ways to approach American Studies, students will examine the diverse experiences, intellectual traditions, and cultural touchstones that make American life a rich and fascinating object of study. Using a variety of sources, students will survey the following themes: race, ethnicity and immigration; expression and imagination; values and ethics; gender; institutional power and politics; and America as a global identity. Previously AS 200.

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. Previously AS 0350.

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. Previously AS 0399.

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. Previously AS 0400.

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. Previously AS 0405.

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. Previously AS 0406.

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. Previously AS 0407.

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. Previously AS 0408.

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. Previously AS 0409.

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. Previously AS 0410.

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. Previously AS 0453.

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. Previously AS 0461.

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, Apress, Eastman, Za, Silko, Momaday, Welch, Eyre, Redroad. Previously AS 0471.

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. Previously AS 0479.

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. Previously AS 0483.

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. Previously AS 0484.

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. Previously AS 0486.

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. Previously AS 0488.

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. Previously ASAH 0441.

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'Keeffe, 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. Previously ASAH 0444.

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. Previously ASEN 0447.

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. Previously ASHI 0415.

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. Previously ASHI 0451.

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. Previously ASMU 0401.

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. Previously ASMU 0402.

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. Previously ASRS 0442.

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. Previously ASSO 0469.

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. Previously ASTA 0421.

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. Previously ASTA 0420.

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. Previously AS 0495.

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. Previously AS 0499.

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. Previously AS 0404.

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: 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 2140 Project Management**3 Credits****Prerequisite:** 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, OM 0140.

DATA 2980 Internship**1 Credit****Prerequisite:** 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****Prerequisites:** 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 IS 0210, BUAN 3210.

DATA 3235 Python Apps for Business Analytics**3 Credits****Prerequisite:** 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 IS 0235, BUAN 3235.

DATA 3260 Database Systems**3 Credits****Prerequisite:** 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:** 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:** 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 4310 Business Intelligence**3 Credits****Prerequisites:** 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****Prerequisites:** 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 IS 0315, 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, IS 0399.

DATA 4999 Business Analytics Capstone**3 Credits****Prerequisite:** 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 IS 0395, 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 QA 0400, BUAN 5400.

DATA 5405 Python Fundamentals**3 Credits**

This course is an introduction to Python, with an emphasis on general programming concepts (structure, logic, data, etc.) that apply to just about any general purpose programming language. Starting with a review of fundamental programming concepts, the course uses short lessons, quizzes, and coding challenges to cover the basics of how Python is used in a professional Business Analytics setting. The course concludes with a final project designed to demonstrate proficiency. Previously BA 0405, BUAN 5405.

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 BA 0410, 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 IS 0500, ISOM 6500.

DATA 6500 Leading with Analytics**3 Credits**

This course provides a broad overview to the analytics profession, with a focus on data driven leadership and hands-on analytical skills. Starting with a foundation of analytical framing and statistical analysis, 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, and decision analysis. 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 an analytics capstone experience. Previously BA 0500, BUAN 6500.

DATA 6505 Data Munging in Python**3 Credits**

Prerequisite: DATA 5405 or placement exam.

In this course, we introduce Python as a language and tool for collecting, preprocessing, and visualizing data for business analytics. Since Python is one of the most popular programming languages in machine learning, its fundamental programming logic and knowledge is essential for students to apply in analytics and to succeed in the job market. Specifically, this course focuses on the data munging phase, which includes collecting, preprocessing, and visualizing data, with respect to applications in business modeling, optimization, and statistical analysis. In addition, important techniques such as web scraping and Application Programming Interface (API) usage are introduced. The course culminates with a final project in exploratory data analysis, as well as individual exercises in data munging intending to be a component of an analytics capstone experience. Previously BA 0505, BUAN 6505.

DATA 6510 Data Warehousing and Visualization**3 Credits**

This course introduces datasets, databases, data warehouses, data management, and data visualization techniques. Starting from the relational data model and basic 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 and normalization needed to ensure data integrity, including entity relationship modeling and diagrams. Additionally, the course simultaneously offers hands-on learning with visualization and interactive dashboards in Tableau. The course concludes with a comprehensive data warehousing and visualization project that gives each student the opportunity to integrate and apply the new knowledge and skills learned from this class. Previously BA 0510, BUAN 6510.

DATA 6520 Analytics Consulting and Strategy**3 Credits**

Prerequisite: 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. Previously IS 0520.

DATA 6530 Statistics and Forecasting**3 Credits****Prerequisite:** 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 QA 0500, BUAN 6530.

DATA 6540 Business Intelligence and Data Storytelling**3 Credits****Prerequisite:** 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 BA 0540, BUAN 6540.

DATA 6545 Data Science and MLOps**3 Credits****Prerequisite:** DATA 6505.

This course provides an advanced understanding of the practices of machine learning techniques and operations (MLOps), with a special focus on business applications. To assure practical relevance, the emphasis of this course is on the applications of techniques and tools realizing machine learning in terms of business analytics. The course is organized following the Cross-Industry Standard Process for Data Mining (CRISP-DM) and all learned techniques are applied in a couple of semester-wide projects. Python is introduced and illustrated through a series of tutorials and case studies, and Automatic Machine Learning (AutoML) is introduced as well. 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. Previously BA 0545, BUAN 6545.

DATA 6550 Big Data Management and Data Ops**3 Credits****Prerequisites:** 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. Previously IS 0550.

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 Artificial Intelligence Applications**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 Deep Learning and Artificial Intelligence**3 Credits****Prerequisite:** DATA 6545.

This course introduces students to the latest development of machine learning, namely deep learning, as well as its applications to a variety of domains. Fundamental knowledge, such as the architectures of the deep neural networks, extraction of high-level features representing unstructured data, backpropagation, and stochastic gradient descent. Additionally, students get hands-on experience building deep neural network models with Python. Topics covered in this class 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 deep learning.

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 IS 0585, 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 IS 0598, ISOM 6990.

DATA 6999 Capstone: Business Analytics Applications 3 Credits

Prerequisites: 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 BA 0590, BUAN 6999.

Anthropology (ANTH)

ANTH 1100 Introduction to Four-Field Anthropology 3 Credits

Attributes: MSID 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. Previously AY 0010.

ANTH 1110 Cultural Anthropology 3 Credits

Attributes: DEIE Diversity, Equality, and Inclusion Elective

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. Previously AY 0111.

ANTH 1115 Cultures of Africa 3 Credits

Attributes: BSFC Black Studies Focus Course, BSSS Black Studies: Social and Behavioral Sciences, INEL International Studies Elective

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. Previously AY 0130.

ANTH 1116 Introduction to Latinx-U.S. Immigration 3 Credits

Attributes: INEL International Studies Elective, LCEL LACS 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

Attributes: INEL International Studies Elective, IWSS 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. Previously AY 0152.

ANTH 1125 Sex, Gender, and Sexual Orientation 3 Credits

Attributes: DEIE Diversity, Equality, and Inclusion Elective, INEL International Studies Elective, WSGF Women, Gender, and Sexuality Studies: Gender Focused

Through a comparison of selected Asian, Middle Eastern, African, and Native American societies, this course explores the ways that culture can mold the biological facts of sexual difference into socially accepted behavior, creating two, and sometimes more, genders. Topics include the allocation of work, power, and prestige between men and women, the belief systems that legitimate gender roles, and some possible causes for the wide variation that exists among cultures. Previously AY 0168.

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. Previously AY 0110.

ANTH 1201 Introduction to Evolution of Human Health 3 Credits

Attributes: MSID 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****Attributes:** HSST 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. Previously AY 0115.

ANTH 1500 Anthropology of Happiness**3 Credits****Attributes:** MSID 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. Previously AY 0147.

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. Previously AY 0145.

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. Previously AY 0190.

ANTH 2010 Culture and Political Economy**3 Credits****Attributes:** DEIE Diversity, Equality, and Inclusion Elective, MWAC 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. Previously AY 0052.

ANTH 2015 Refugees and Culture**3 Credits****Attributes:** DEIE Diversity, Equality, and Inclusion Elective, HACA Humanitarian Action Minor Context Course, INEL International Studies Elective, PJST 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. Previously AY 0135.

ANTH 2016 Anthropology of Humanitarianism**3 Credits****Attributes:** HACA Humanitarian Action Minor Context Course, HAFD Humanitarian Action Foundation Course, HASM Humanitarian Action Minor Skills/Method 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****Attributes:** DEIE Diversity, Equality, and Inclusion Elective, PMMP 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. Previously AY 0199.

ANTH 2100 Culture and Inequality**3 Credits****Attributes:** DEIE Diversity, Equality, and Inclusion Elective, INEL International Studies Elective, PJST Peace and Justice Studies

This course focuses on the concepts of "culture" and "inequality," two terms employed to deal with "difference" in a range of intriguingly different and morally charged ways. The course explores recent work in anthropology, economics, and sociology using culture and/or inequality as a lens through which to view various issues in contemporary social theory. In the process, students work to discover what kind of lens culture and/or inequality provides, how our implicit understandings of these ideas shape how we think about the world, and how we might better use such ideas to do our thinking. Previously AY 0163.

ANTH 3600 Anthropological Research Methods**3 Credits****Attributes:** HASM Humanitarian Action Minor Skills/Method Course, INEL 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. Previously AY 0200.

ANTH 3700 Grant Writing for the Social Sciences**3 Credits****Attributes:** EVAP Environmental Studies: Applied Professional Skills, HASM Humanitarian Action Minor Skills/Method Course, INEL International Studies Elective, PAWR 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. Previously AY 0180.

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." Previously AY 0189.

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. Previously AY 0399.

Applied Ethics (AETH)

AETH 2262 Ethics and the Community**3 Credits****Attributes:** PJST Peace and Justice Studies**Prerequisite:** 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. Previously AE 0262.

AETH 2265 Ethics in Education**3 Credits****Attributes:** EDCG Educational Studies Cognate**Prerequisite:** One course in Philosophy or Religious Studies.

This survey of the ethical issues that arise in the classroom, school, and school district also covers those issues, to a lesser extent, in the educational policies of the state and federal government. The course directly addresses issues of race, class, and gender in the educational system, addressing entitlement to education, access to education, discipline in the educational setting, multicultural issues in general, politics, accountability, assessment, and the ethics of respect as they pertain to teachers, students, and administrators. Previously AE 0265.

AETH 2270 Ethical Dimensions of Global Violence**3 Credits****Prerequisite:** One course in Philosophy or Religious Studies.

A survey of the ethical implications of the new and alarming potentials for violence in a disorderly world. The new faces of violence - insurgency, terrorism inspired by religion, plans for mass destruction, children as warriors - will be examined in the context of Just War theory, the Christian commitment to social justice, and the emerging international order (and disorder). Fully half the course will explore the perspectives of the developing world, especially as violence occurs between factions from the developing world and the traditional wielders of force in the North and West. Previously AE 0270.

AETH 2272 Ethics of Humanitarian Action**3 Credits****Attributes:** HAFD Humanitarian Action Foundation Course, PADE Public Administration Disaster and Emergency Management**Prerequisite:** One course in Philosophy or Religious Studies.

This course provides students with principles and methods of ethics that they will apply to issues of humanitarian action. Examples of humanitarian action to be considered in this course include the international humanitarian system run by states, non-governmental organizations (NGOs), the United Nations and its lead agencies and, increasingly, the private sector. Students also will learn about the development of humanitarian codes of conduct, values and principles, which they will evaluate in terms of their ethical content. Previously AE 0272.

AETH 2276 Ethical Dimensions of Global Business Practices**3 Credits****Attributes:** HACA Humanitarian Action Minor Context Course, PJST Peace and Justice Studies**Prerequisite:** One course in Philosophy or Religious Studies.

A survey of the ethical dimensions of contemporary business practice generally, with special emphasis on the ethical implications of global business enterprise. Topics include global employment practices, human and employee rights in a global economy, the implications of external debt for the economies of developing nations, the human costs and benefits of the changes in global agriculture and food provision generally, and the work of international agencies (the World Trade Organization, the International Monetary Fund, and the World Bank in particular) in guiding the economies of the world. A three-week unit will focus on the economic implications of natural and man made disasters and humanitarian crises. Previously AE 0276.

AETH 2281 Ethics of Communications**3 Credits****Attributes:** ENEC Digital Journalism Ethics Component**Prerequisite:** One course in Philosophy or Religious Studies.

This course examines the moral dilemmas of media management, political propaganda, campaign promotions, public relations, and corporate communication. Topics include advertising and marketing practices, especially political advocacy and messages targeted to various audiences; truth and loyalty in public relations practices; the philosophical and constitutional bases of freedom of the press; and problems of media bias, systematic and otherwise. Previously AE 0281.

AETH 2283 Environmental Justice**3 Credits**

Attributes: EVHU Environmental Studies: Humanities, EVME Environmental Studies Major Elective, EVPE Environmental Studies Elective, PJST Peace and Justice Studies, WSGF Women, Gender, and Sexuality Studies: Gender Focused

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. Previously AE 0283. **Prerequisite:** One course in Philosophy or Religious Studies. Previously AE 0283.

AETH 2284 Environmental Ethics**3 Credits**

Attributes: EVHU Environmental Studies: Humanities, EVPE Environmental Studies Elective, PJST Peace and Justice Studies

Prerequisite: One course in Philosophy or Religious Studies.

Students examine the environmental problems that arise in our attempts to reconcile the demands of human fulfillment and economic activity, and the requirements of ecological balance. Issues include the diverse perspectives of conservation, preservation, and deep ecology. Student projects cover the wise use of resources; pollution of land, air, and water; conservation of species and open space; global climatic change; and the future stewardship of oceans, forests, and the atmosphere. Previously AE 0284.

AETH 2285 Ethics of Health Care**3 Credits**

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

Prerequisite: One course in Philosophy or Religious Studies.

This course considers the moral dilemmas of the healthcare setting. Topics include patients' rights (medical paternalism and patient autonomy, informed consent to therapy, and participation in research); dilemmas of reproduction (technological assistance, abortion, cloning); dilemmas of life and death (assisted suicide, euthanasia, technological interventions for the dying); allocation of healthcare resources; and the special dilemmas of healthcare professionals caught in binds between HMO contracts and professional obligations. Previously AE 0285.

AETH 2287 Engineering Ethics**3 Credits**

Prerequisite: One course in Philosophy or Religious Studies.

This course systematically explores the ethical dimensions of situations and tasks common to engineering practice. Issues include professionalism, codes of ethics, consumer risk and safety, employee loyalty and whistle-blowing, research and ownership of information, and the engineer's responsibility to the natural environment. Previously AE 0287.

AETH 2291 Business Ethics**3 Credits**

Prerequisite: One course in Philosophy or Religious Studies.

This course investigates ethical problems in business practice. Topics include the foundation of the free-market system, personal morality in profit-oriented enterprises; codes of ethics, obligations to employees and other stakeholders; truth in advertising, whistle-blowing, and company loyalty; self and government regulation; the logic and future of capitalism; and the changing responsibilities of the manager in a rapidly globalizing business environment. Previously AE 0291.

AETH 2293 Ethics of War and Peace**3 Credits**

Attributes: HACA Humanitarian Action Minor Context Course, INEL International Studies Elective, PJST Peace and Justice Studies

Prerequisite: One course in Philosophy or Religious Studies.

This is a survey of issues relating to war and international conflict. Topics include Just War theory, human rights issues, the impact of war on women, the role of the United Nations Security Council, and the history of global attempts to proscribe and prevent aggression. The course also looks at related issues that have emerged in recent years, such as humanitarian intervention and economic sanctions. Previously AE 0293.

AETH 2295 Ethics in Law and Society**3 Credits**

Prerequisite: One course in Philosophy or Religious Studies.

This course is an inquiry into the ethical dilemmas of making, enforcing, adjudicating, obeying and practicing the law. Topics include the nature of law and the province of jurisprudence, responsibility of the criminal bar (defense, prosecution, judicial), conflicts of interest, election or appointment of judges, the moral infrastructure of the Constitution, the limits of adjudication, and issues relating to investigative technique (torture and extreme confinement conditions). Previously AE 0295.

AETH 2908 Special Topics**3 Credits**

Prerequisites: 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**

Attributes: MGEL Management: General Elective

Prerequisites: 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. Previously AE 0391.

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. Previously AE 0399.

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. Previously AR 0110.

ARBC 1111 Elementary Modern Standard Arabic II**3 Credits****Prerequisite:** 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. Previously AR 0111.

ARBC 2210 Intermediate Modern Standard Arabic I**3 Credits****Prerequisite:** 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. Previously AR 0210.

ARBC 2211 Intermediate Modern Standard Arabic II**3 Credits****Prerequisite:** 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. Previously AR 0211.

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. Previously AR 0381-0382.

Art History (AHST)

AHST 1001 Exploring Art History: Technology and Art**3 Credits****Attributes:** GDAH Graphic Design: Art History

This course introduces students to art history as a discipline through the theme of technology by examining a series of paradigm monuments from antiquity and the medieval world within a global context. These monuments will form an entry points into a time and place where students will learn about associated monuments. Ancient and medieval use of sophisticated technologies such as bronze casting to stained glass will be explored. Today's technologies such as digital photography, augmented reality, as well as satellite and LiDAR image acquisition will be examined to understand how analyses and interpretations are formed and changed over time. Previously AH 0101A.

AHST 1002 Exploring Art History: Migration and Art: Raids, Trade, Pilgrimage**3 Credits****Attributes:** GDAH Graphic Design: Art History

This course introduces students to the discipline of art history through the theme of human movement across physical and political boundaries, and its relationship to visual art. 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 bring with them materials, artworks, and ideas. Students will examine a series of paradigm monuments, their historical and cultural contexts, and artworks related to them that show evidence of the interconnectedness of people and cultures. Monuments studied may vary, depending on expertise of instructor. Previously AH 0101B.

AHST 1003 Exploring Art History: Life, Death, and the Afterlife in Art**3 Credits****Attributes:** GDAH Graphic Design: Art History

This course will introduce students to the discipline of art history through the study of monuments 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. Previously AH 0101C.

AHST 1004 Exploring Art History: Art, Politics, and Propaganda**3 Credits****Attributes:** GDAH Graphic Design: Art History

This course introduces students to the discipline of art history through the theme of propagandizing visual imagery conceived and executed in the earliest societies of civilization. Overviewing the ancient world, students will examine a series of paradigm monuments using a critical eye to explore their aesthetic, political, and cultural contexts. Focusing on paradigm examples of ancient painting, sculpture, decorative arts, and architecture, students will develop critical visual literacy skills. Each paradigm from antiquity will be contrasted with an image from the modern world to underscore how early human ideas are manifested in the present. Previously AH 0101D.

AHST 1005 Exploring Art History: Sex, Sacrilege, Scandals: From Caves to Culture Wars**3 Credits****Attributes:** GDAH 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. Previously AH 0101E.

AHST 1006 Exploring Art History: Destruction, Plunder, and Preservation**3 Credits****Attributes:** GDAH Graphic Design: Art History

This course introduces students to the discipline of art history through the theme of pre-modern art's destruction, looting, and preservation/reconstruction. Through studying a series of paradigm monuments and their cultural and historical contexts, we will explore topics including the appropriations of objects for political and economic purposes, reasons why various cultures have assigned power to particular artwork, and art's destruction predicated the willful erasures of entire cultures by others. We will consider ethical implications and obligations, and current cultural heritage debates over contested objects and monuments from around the world. Previously AH 0101F.

AHST 1102 Art of East Asia**3 Credits****Attributes:** ANMC Asian Studies Elective, DEIE Diversity, Equality, and Inclusion Elective, GDAH Graphic Design: Art History, INEL 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. Previously AH 0102.

AHST 1103 Art of Africa, the Caribbean, and the Americas**3 Credits****Attributes:** BSCC Black Studies Component Course, DEIE Diversity, Equality, and Inclusion Elective, GDAH Graphic Design: Art History, INEL International Studies Elective, LCEL LACS 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. Previously AH 0103.

AHST 1104 Art of Asia**3 Credits****Attributes:** ANMC Asian Studies Elective, DEIE Diversity, Equality, and Inclusion Elective, GDAH Graphic Design: Art History, INEL 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. Foci include: ancient funerary arts, the development of Buddhist art throughout the continent, and secular arts associated with imperial courts and the rise of cities. The course highlights collections of Asian art at the Fairfield University Art Museum, Yale University, and in New York City. Previously AH 0104.

AHST 1105 History of Architecture**3 Credits****Attributes:** GDAH Graphic Design: Art History

This introductory course surveys the major periods and key monuments in the history of architecture, largely in the West, from antiquity to the present. Topics include Greek and Roman temples and civic architecture, Medieval mosques and cathedrals, Renaissance and Baroque cities and their monuments, Early Modern factories and gardens, Machine Age museums and houses, and contemporary architectural developments of all sorts. Students will work with actual buildings in writing assignments and learn the skills necessary to critique and interpret the built environment of the past and present in the United States and beyond. Previously AH 0105.

AHST 1109 Jewish Art: Moses to Modernity**3 Credits****Attributes:** GDAH Graphic Design: Art History, JST 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? Previously AH 0109.

AHST 1110 Myth in Classical Art**3 Credits**

Greek and Roman art serve as a rich depository of Greek mythology with a wide range of representations that evolved across the centuries. As a source of information, classical art sometimes preserves myths that are otherwise unknown in the surviving literature. In some cases visual representations date earlier than an extant literary description or differ in the story details. This course focuses on ancient sources, visual and literary, to study the Olympian gods; the heroes, Perseus, Herakles, Theseus, and Odysseus; the Trojan War; and battles such as the gods and giants, Lapiths and Centaurs, and Amazons and Greeks. Students will analyze the appearance of select myths on monuments in the classical world, emphasizing examples in the Metropolitan Museum of Art, the Yale University Art Gallery, and the Historic Plaster Cast Collection at Fairfield. Previously AH 0210, AHST 2210.

AHST 1111 Greek Art and Archaeology**3 Credits****Attributes:** GDAH Graphic Design: Art History

This survey covers the major developments in architecture, sculpture, and painting from the time of Homer to the collapse of the Hellenistic world. The course considers the formation of the Pan-Hellenic sanctuaries of Olympia and Delphi in the geometric and archaic periods and the rise of democracy under the leadership of Pericles in Athens, culminating in the Parthenon of the high classical period and the creation of an empire under Alexander the Great. Students explore the legacy of Greek achievement in the context of its impact on the Roman world and later art. The course emphasizes objects in area museums and includes field trips. Previously AH 0111.

AHST 1112 Roman Art and Archaeology: Colosseum to Catacombs**3 Credits****Attributes:** GDAH Graphic Design: Art History, ISIF Italian Studies: Italy-Focused, ITEN Italian Course Taught in English

In this course we will examine art of the Roman Republic and empire, beginning with an introduction to Etruscan Italy before Roman conquest. The major themes of the course are: society as reflected in portraiture; religion as communicated in temple and domestic architecture and decoration; the organization and architecture of urban spaces; the architecture and decoration of houses. These themes will also be related to the art of other places and times, including that of the ancient Greeks and our own society. The course emphasizes objects in area museums and includes trips to world-class museums in our region. Previously AH 0112.

AHST 1113 Art and Archaeology of Ancient Egypt: Images for Eternity**3 Credits****Attributes:** GDAH Graphic Design: Art History, INEL 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. Students will visit the Metropolitan Museum of Art. Previously AH 0113.

AHST 1120 Medieval Art: Catacombs to Cathedrals**3 Credits****Attributes:** CAOT Catholic Studies: Non-Religious Studies, FREN French Course Taught in English, GDAH Graphic Design: Art History

This introduction to medieval art and architecture in Western Europe, from its Roman, Jewish, and Early Christian sources through the Gothic period, explores continuity and change in art and its relationship to society and culture. We will consider the physical and sensory original environments of the artworks, including sound, smell, and touch. Other topics include the relationship of belief and ritual to religious imagery and architecture, the impact of imperial patronage on art, and the influence of Islam on Western medieval art and iconography. The class will use material from the Fairfield University Art Museum's loan collection from the Metropolitan Museum of Art and the Cloisters, and will take a field trip to the Metropolitan Museum of Art. Previously AH 0120.

AHST 1121 Celtic and Early Irish Art**3 Credits****Attributes:** CAOT Catholic Studies: Non-Religious Studies, GDAH Graphic Design: Art History, IRSE Irish Studies Elective, MSID Magis Core: Interdisciplinary

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. Previously AH 0121.

AHST 1121X Celtic and Early Irish Art**3 Credits****Attributes:** CAOT Catholic Studies: Non-Religious Studies, GDAH Graphic Design: Art History, IRSE Irish Studies Elective, MSID Magis Core: Interdisciplinary**Corequisite:** 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****Attributes:** CAOT Catholic Studies: Non-Religious Studies, GDAH Graphic Design: Art History, ISIF Italian Studies: Italy-Focused, ITEN Italian Course Taught in English

In this panoramic overview of Italian art, culture, and society between 1300 and 1520, we explore the city of Florence as the "cradle of a new world." From its art workshops and urban planning studios, the monumental Duomo of Brunelleschi rises to symbolize a new era for human creativity. Viewing masterpiece artworks, we discover the exciting shift from medieval formalism to a new aristocratic elegance, opulence, and classical humanism. In this interdisciplinary humanities course, we contrast and compare aspects of Florentine culture as symbolized and visualized in the arts. Artworks depict banking, science, engineering, diplomacy, women's traditional roles of domesticity in the court, and a new appreciation for clothing fashions. Course includes visits to world-renowned area museums allowing students to study first-hand prime examples of Florentine art. No prerequisite beyond a curiosity to learn how Renaissance art of the past enriches our lives in the present. Previously AH 0130.

AHST 1131 High Renaissance and Mannerism in Italy 3 Credits

Attributes: CAOT Catholic Studies: Non-Religious Studies, GDAH Graphic Design: Art History

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. Vasari organized all Italian artists, and all forms of artistic production, into an orderly progression that reached perfection in the sculpture produced by the "divine Michelangelo" during the period we call the High Renaissance. How reliable was Vasari's narrative of artistic progress, and what happened to Italian art after it reached this so-called perfection? This course, which spans roughly 1480-1570, investigates those and other questions that emerge from this flourishing period of cultural production on the Italian peninsula. We will examine themes including 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. While the course focuses on Florence, Venice, and Rome as major centers of artistic production, we will also look to the broader global context that shaped the world in which these Italian artists lived and worked.

AHST 1132 Baroque Art and Architecture in Rome 3 Credits

Attributes: ISIF Italian Studies: Italy-Focused

Baroque art began in Rome, and many 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

Attributes: FREN French Course Taught in English, GDAH 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. Previously AH 0152.

AHST 1164 American Art and Media Culture 3 Credits

Attributes: ASGW American Studies: Gateway, ASVP American Studies: Visual and Performing Arts, GDAH 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? Previously AH 0164.

AHST 1165 African-American Art 3 Credits

Attributes: ASGW American Studies: Gateway, ASVP American Studies: Visual and Performing Arts, BSAH Black Studies: Arts and Humanities, BSFC Black Studies Focus Course, DEIE Diversity, Equality, and Inclusion Elective, GDAH 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. Previously AH 0165.

AHST 1172 History of Photography 3 Credits

Attributes: GDAH 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. Previously AH 0172.

AHST 1191 Art and Mythologies of Nazi Germany, Fascist Italy, Bolshevik Russia: Comparative Systems & Outcomes 3 Credits

Attributes: GDAH Graphic Design: Art History, GMEL German Major or Minor Course, GMEN German Course Taught in English, ISIC Italian Studies: Italy Component, ITEN Italian Course Taught in English, JST Judaic Studies Minor, RECS Russian, Eastern European, and Central Asian Studies, RSVP 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. Previously AH 0191.

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. Previously AH 0192.

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. Previously AH 0193.

AHST 2209 Historic Plaster Cast Collection at Fairfield University 3 Credits

Prerequisite: One 1000-level art history course.

Students will study the history of plaster cast collections in Europe and the U.S. including Fairfield's growing collection. Emphasis will be given to the Fairfield collection by conducting research on the plaster casts. Students will assist with museum and website information. Students will clean and apply light restoration to plaster casts in preparation for their display in different areas on campus. Class visits to the Slater Museum, the Institute for Classical Architecture, and the Metropolitan Museum of Art will be scheduled. Opportunities to visit the Slater Museum, the Institute for Classical Architecture, and the Metropolitan Museum of Art will be scheduled. Consultation with curators and sculptors will provide additional guidance to students. Previously AH 0209.

AHST 2221 Arts of Ireland and the British Isles, 500-1000 3 Credits

Attributes: CAOT Catholic Studies: Non-Religious Studies, IRSE Irish Studies Elective

Prerequisite: 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. Previously AH 0221.

AHST 2222 Byzantine Art 3 Credits

Attributes: CAOT Catholic Studies: Non-Religious Studies

Prerequisite: 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. These themes will also be related to the art of other places and times, including our own. We will explore continuity and change in the content and style of Byzantine Art over time, while constantly being aware of the relationship between art and society. Previously AH 0222.

AHST 2250 Fashion Forward: A History of Fashionable Dress in Global Context 3 Credits

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: 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. Previously AH 0292.

AHST 2296 Museum Exhibition Seminar 3 Credits

Prerequisite: 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. This iteration of the seminar will focus on an exhibition of Old Master woodcuts, engravings, and etchings from the Wetmore Collection at Connecticut College that will open in September 2024 in the Bellarmine Hall Galleries. During the first part of the semester, the seminar will focus on the history, materials, and techniques associated with European printmaking from the 15th-18th centuries. During the second half of the semester, we will turn our focus to museum practice and exhibition planning, as students conduct individual research projects to produce labels and wall text for the exhibition.

AHST 2900 Special Topics (Shell) 3 Credits

Prerequisite: One 1000-level art history course.

Students conduct an in-depth study of a specific subject in the history of art. Previously AH 0290.

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. Previously AH 0310.

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. Previously AH 0300.

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. Previously AH 0330.

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. Previously AN 0301.

ASST 4999 Asian Studies Seminar**3 Credits**

Attributes: ANMC Asian Studies Elective

Prerequisite: 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. Previously AN 0310.

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. Previously BI 0015.

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. Previously BI 0016.

BIOL 1018 Human Biology: Form and Function**3 Credits**

Attributes: EDCG Educational Studies Cognate, HSST Health Studies: Science and Technology

This course, which provides a basic introduction to human anatomy and physiology, examines the major organ systems of the body, focusing on how each system functions and how all systems interact with one another. Genetics, disease and prevention, nutrition, current issues in public health, and environmental health problems that human populations face are discussed. Note: This course counts as a natural science core but does not satisfy requirements for the biology major or minor. Previously BI 0018.

BIOL 1020 Bioinspiration: Innovation Inspired by Nature**3 Credits**

Attributes: MSID 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**

Attributes: EDCG Educational Studies Cognate

This course analyzes the major science and technology issues that confront today's society. Through an examination of the underlying science, students gain an understanding of the impact these issues hold for the environment, our natural resources, and our society, including benefit versus hazard expectations. Course issues, which change to incorporate timely topics, include acid rain; agriculture; diseases such as AIDS, cancer, and heart disease; energy; genetic engineering; the greenhouse effect; ozone depletion; and water pollution. Note: This course counts as a natural science core but does not satisfy requirements for the biology major or minor. Previously BI 0070.

BIOL 1071 Identity and the Human Genome**3 Credits**

Attributes: BSOC Black Studies Component Course, BSSC Black Studies:

Physical and Natural Sciences, DEIE Diversity, Equality, and Inclusion Elective, HSST Health Studies: Science and Technology, WSGF Women, Gender, and Sexuality Studies: Gender Focused

This course introduces human genetics to the non-science major. Topics of discussion include the structure and function of genes, modes of inheritance, gene editing, sex and gender, race, and human genetic diversity. Special emphasis is placed on ethical, legal and social issues related to the knowledge and application of genetic information. Note: This course counts as a natural science core but does not satisfy requirements for the biology major or minor. Previously BI 0071.

BIOL 1073 Contemporary Nutrition: Food for Thought 3 Credits

Attributes: HSST Health Studies: Science and Technology
This course will introduce non-science majors to the core biological processes of nutrition, and contemporary nutrition concerns related to human growth and well-being throughout life. The course will include material on: food selection and preparation, sensory evaluation, human nutrition, diet analysis, and the relationship between diet and disease. Students will gain the knowledge and skill development necessary to achieve a nutritionally healthy lifestyle. Note: This course counts as a natural science core but does not satisfy requirements for the biology major or minor. Previously BI 0073.

BIOL 1074 Biology of Food 3 Credits

Attributes: EVME Environmental Studies Major Elective, EVNS Environmental Studies: Natural Science, EVPE Environmental Studies Elective, MSID 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. Previously BI 0074.

BIOL 1075 Ecology and Society 3 Credits

Attributes: EDCG Educational Studies Cognate, EVME Environmental Studies Major Elective, EVNS Environmental Studies: Natural Science, EVPE Environmental Studies Elective, PJST 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. Previously BI 0075.

BIOL 1076 Environmental Science 3 Credits

Attributes: EVME Environmental Studies Major Elective, EVNS Environmental Studies: Natural Science, EVPE Environmental Studies Elective, MSID Magis Core: Interdisciplinary, PJST 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. Previously BI 0076.

BIOL 1078 Introduction to Marine Science 3 Credits

Attributes: EVME Environmental Studies Major Elective, EVNS Environmental Studies: Natural Science, EVPE Environmental Studies Elective, MSID 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. Previously BI 0078.

BIOL 1088 Biomedical Science and Society 3 Credits

Attributes: HSST Health Studies: Science and Technology, MSID Magis Core: Interdisciplinary, MWAC Magis Core: Writing Across Curriculum
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. Previously BI 0088.

BIOL 1095 Philosophy and Biology of Evolutionary Theory 3 Credits

Prerequisite: 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. Previously BI 0095.

BIOL 1096 God and Modern Biology 3 Credits

Attributes: CAOT 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. Previously BI 0096.

BIOL 1107 Human Anatomy and Physiology I 4 Credits

Attributes: BPMB Biology Physiology Block, HSST Health Studies: Science and Technology
Corequisite: 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. Previously BI 0107.

BIOL 1107L Human Anatomy and Physiology I Lab 0 Credits

Fee: \$120 Science Lab Fee
Corequisite: BIOL 1107.
Laboratory work closely follows the BIOL 1107 lecture and includes microscopic anatomy (histology), use of virtual cadaver (Anatomege 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. Previously BI 0107L.

BIOL 1108 Human Anatomy and Physiology II 4 Credits

Attributes: BPMB Biology Physiology Block, HSST Health Studies: Science and Technology

Corequisite: BIOL 1108L.

Prerequisite: 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. Previously BI 0108.

BIOL 1108L Human Anatomy and Physiology II Lab 0 Credits

Fee: \$120 Science Lab Fee

Corequisite: BIOL 1108.

Laboratory work closely follows the BIOL 1108 lecture and includes microscopic anatomy (histology), use of virtual cadaver (Anatome Table), anatomical models, and dissections for study of gross anatomy, and physiology experiments including blood pressure measurements, blood typing, lung function, and urinalysis. Previously BI 0108L.

BIOL 1151 Elements of Microbiology 4 Credits

Attributes: MWID Magis Core: Writing in the Discipline

Prerequisites: 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. Previously BI 0151.

BIOL 1151L Elements of Microbiology Lab 0 Credits

Attributes: MWID Magis Core: Writing in the Discipline

Fee: \$120 Science Lab Fee

BIOL 1171 General Biology I 4 Credits

Attributes: HSST Health Studies: Science and Technology, MWID Magis Core: Writing in the Discipline

Corequisites: 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. Previously BI 0170.

BIOL 1171L General Biology I Lab 0 Credits

Attributes: MWID Magis Core: Writing in the Discipline

Fee: \$120 Science Lab Fee

BIOL 1171P General Biology I PLG 0 Credits**BIOL 1171S General Biology I 4 Credits**

Attributes: HSST Health Studies: Science and Technology, MWID Magis Core: Writing in the Discipline

Corequisite: 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

Attributes: HSST Health Studies: Science and Technology

Corequisites: 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. Previously BI 0171.

BIOL 1172L General Biology II Lab 0 Credits

Fee: \$120 Science Lab Fee

BIOL 1172P General Biology II PLG 0 Credits**BIOL 1172S General Biology II 4 Credits**

Attributes: HSST Health Studies: Science and Technology

Corequisites: 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: 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. Previously BI 0172.

BIOL 1173L General Biology III Lab 0 Credits

Attributes: MWID Magis Core: Writing in the Discipline

Fee: \$120 Science Lab Fee

BIOL 2218 Vertebrate Zoology 3 Credits

Attributes: BEEE Biology Ecology Block, EVME Environmental Studies Major Elective, EVNS Environmental Studies: Natural Science, EVPE Environmental Studies Elective

Prerequisites: 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. Previously BI 0218.

BIOL 2218L Vertebrate Zoology Lab 1 Credit

Attributes: BEEE Biology Ecology Block

Fee: \$120 Science Lab Fee

Corequisite: BIOL 2218.

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. Previously BI 0218L.

BIOL 2251 Human Nutrition**3 Credits****Prerequisites:** 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. Previously BI 0251.

BIOL 2260 Ecology**4 Credits**

Attributes: BEEE Biology Ecology Block, EDCG Educational Studies Cognate, EVME Environmental Studies Major Elective, EVNS Environmental Studies: Natural Science, EVPE Environmental Studies Elective

Corequisite: BIOL 2260L.**Prerequisites:** 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. Previously BI 0260.

BIOL 2260L Ecology Lab**0 Credits****Fee:** \$110 Science Lab Fee**BIOL 2261 Genetics****4 Credits**

Attributes: BMCD Biology Molecular Block, EDCG Educational Studies Cognate

Corequisite: BIOL 2261L.**Prerequisites:** 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. Previously BI 0261.

BIOL 2261L Genetics Lab**0 Credits****Attributes:** MWID Magis Core: Writing in the Discipline**Fee:** \$120 Science Lab Fee**BIOL 2262 Human Physiology****4 Credits****Attributes:** BPMB Biology Physiology Block**Corequisite:** BIOL 2262L.**Prerequisites:** BIOL 1171, BIOL 1172; BIOL 1173 or PSYC 1610; 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. Previously BI 0262.

BIOL 2262L Human Physiology Lab**0 Credits****Fee:** \$120 Science Lab Fee**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:** 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. Previously BI 0201.

BIOL 2952 Biology Teaching Practicum II**1 Credit****Prerequisite:** 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. Previously BI 0202.

BIOL 2953 Biology Teaching Practicum III**1 Credit****Prerequisite:** 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. Previously BI 0203.

BIOL 2954 Biology Teaching Practicum IV**1 Credit****Prerequisite:** 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. Previously BI 0204.

BIOL 2955 Biology Teaching Practicum V**1 Credit**

Prerequisite: 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. Previously BI 0205.

BIOL 2956 Biology Teaching Practicum VI**1 Credit**

Prerequisite: 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. Previously BI 0206.

BIOL 3312 Fundamentals of Neurobiology**3 Credits**

Prerequisites: BIOL 1171, 1172, 1173; CHEM 1171, 1172, 2271, 2272.

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.

BIOL 3314 Endocrinology**3 Credits**

Attributes: BPMB Biology Physiology Block

Prerequisites: 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. Previously BI 0314.

BIOL 3315 Anatomy: Form and Function**3 Credits**

Attributes: BPMB Biology Physiology Block

Prerequisite: 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. Previously BI 0315.

BIOL 3319 Zoology Field Experience**3 Credits**

Attributes: BEEE Biology Ecology Block, EVME Environmental Studies Major Elective, EVNS Environmental Studies: Natural Science, EVPE Environmental Studies Elective, LCEL LACS Minor: Elective

Prerequisite: 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. Previously BI 0319.

BIOL 3319L Zoology Field Experience Lab**3 Credits**

Attributes: EVME Environmental Studies Major Elective, EVNS Environmental Studies: Natural Science

Fee: \$120 Science Lab Fee

Prerequisite: 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. Previously BI 0319L.

BIOL 3323L Biochemistry Lab**1 Credit**

Fee: \$120 Science Lab Fee

Corequisite: 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. Previously BI 0323L.

BIOL 3324 Biochemistry I**3 Credits**

Attributes: BPMB Biology Physiology Block

Prerequisite: 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. Previously BI 0324.

BIOL 3325 Biochemistry II**3 Credits****Attributes:** BPMB Biology Physiology Block**Prerequisite:** CHEM 2272.

This course focuses on the regulation of metabolic pathways involved in the synthesis, breakdown, and interconversion of biochemical intermediates that are fundamental to all life. Basic principles of biological thermodynamics will be highlighted in order to understand the processes by which living cells obtain and utilize energy. Students will develop an understanding of basic biomedical principles in the context of overall cell function. This course cannot be taken as a biology block elective if BIOL 3330 has been taken previously. Crosslisted with CHEM 3325. Previously BI 0325.

BIOL 3327 Cell Biology**4 Credits****Attributes:** BMCD Biology Molecular Block, EDCG Educational Studies Cognate**Corequisite:** BIOL 3327L.**Prerequisites:** 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. Previously BI 0327.

BIOL 3327L Cell Biology Lab**0 Credits****Fee:** \$120 Science Lab Fee**BIOL 3330 Nutrient Metabolism****3 Credits****Prerequisites:** 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. Previously BI 0330.

BIOL 3342 Developmental Biology**4 Credits****Attributes:** BMCD Biology Molecular Block, EDCG Educational Studies Cognate**Corequisite:** BIOL 3342L.**Prerequisite:** 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. Previously BI 0342.

BIOL 3342L Developmental Biology Lab**0 Credits****Fee:** \$120 Science Lab Fee**BIOL 3352 Fundamentals of Microbiology****4 Credits****Attributes:** BMCD Biology Molecular Block, EDCG Educational Studies Cognate**Corequisite:** BIOL 3352L.**Prerequisites:** 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. Previously BI 0352.

BIOL 3352L Fundamentals of Microbiology Lab**0 Credits****Fee:** \$120 Science Lab Fee**BIOL 3354 Molecular Biology****3 Credits****Attributes:** BMCD Biology Molecular Block**Prerequisites:** 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. Previously BI 0354.

BIOL 3356 Immunology**3 Credits****Attributes:** BMCD Biology Molecular Block**Prerequisites:** 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. Previously BI 0356.

BIOL 3357 General Virology**3 Credits****Attributes:** BMCD Biology Molecular Block**Prerequisite:** BIOL 1171, BIOL 1172, CHEM 2272.

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. Previously BI 0357.

BIOL 3362 Marine Invertebrate Zoology**4 Credits****Attributes:** BEEE Biology Ecology Block, EDCG Educational Studies Cognate**Corequisite:** BIOL 3362L.**Prerequisite:** BIOL 1171, BIOL 1172, BIOL 1173.

Students study the phylogeny, ecology, morphology, and physiology of the major marine invertebrate groups with emphasis on local fauna. The laboratory component includes field trips to various habitats in Long Island Sound to collect specimens for identification and study. Previously BI 0362.

BIOL 3362L Marine Invertebrate Zoology Lab**0 Credits****Fee:** \$120 Science Lab Fee

BIOL 3364 Freshwater Ecology**4 Credits**

Attributes: BEEE Biology Ecology Block, EDCG Educational Studies Cognate, EVME Environmental Studies Major Elective, EVNS Environmental Studies: Natural Science, EVPE Environmental Studies Elective

Corequisite: BIOL 3364L.

Prerequisite: 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 experiments involving ecological concepts such as predation and competition. Previously BI 0364.

BIOL 3364L Freshwater Ecology Lab**0 Credits**

Fee: \$120 Science Lab Fee

BIOL 3365 Evolutionary Biology**4 Credits**

Attributes: BEEE Biology Ecology Block, EDCG Educational Studies Cognate

Corequisite: BIOL 3365L.

Prerequisite: 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. Previously BI 0365.

BIOL 3365L Evolutionary Biology Lab**0 Credits**

Fee: \$120 Science Lab Fee

BIOL 3366 Ornithology**4 Credits**

Attributes: BEEE Biology Ecology Block, EDCG Educational Studies Cognate, EVME Environmental Studies Major Elective, EVNS Environmental Studies: Natural Science, EVPE Environmental Studies Elective

Corequisite: BIOL 3366L.

Prerequisite: 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. Previously BI 0366.

BIOL 3366L Ornithology Lab**0 Credits**

Fee: \$120 Science Lab Fee

BIOL 3372 Environmental Toxicology**4 Credits**

Attributes: BEEE Biology Ecology Block, EVME Environmental Studies Major Elective, EVNS Environmental Studies: Natural Science, EVPE Environmental Studies Elective

Corequisite: BIOL 3372L.

Prerequisites: 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). Previously BI 0372.

BIOL 3372L Environmental Toxicology Lab**0 Credits**

Fee: \$120 Science 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. Previously BI 0391.

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. Previously BI 0392.

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. Previously BI 0393.

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. Previously BI 0394.

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. Previously BI 0395.

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. Previously BI 0396.

BIOL 4981 Internship**1-3 Credits**

Prerequisite: 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. Previously BI 0397.

BIOL 4982 Internship**1-3 Credits**

Prerequisite: 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. Previously BI 0398.

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. Previously BI 0296.

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. Previously BI 0399.

BIOL 4999A Senior Capstone Seminar: Biology of Cancer**3 Credits**

Attributes: BICP Biology Major Capstone Course

Prerequisites: 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**

Attributes: BICP Biology Major Capstone Course

Prerequisites: 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**

Attributes: BICP Biology Major Capstone Course

Prerequisites: 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**Attributes:** BICP Biology Major Capstone Course**Prerequisites:** 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**Attributes:** BICP Biology Major Capstone Course**Prerequisites:** BIOL 1171, BIOL 1172, BIOL 1173, one course from the Physiology Block, senior standing.

This seminar explores the ways animals have evolved creative mechanisms, physiological and behavioral, to maximize their reproductive success. Topics will include mate choice and sexual conflict, paternity, variability in reproductive anatomy, mechanisms for successful fertilization, sperm competition, and sperm choice. Course format: A reading extensive course. Students will read from a source text for foundation ideas, then will each find and present to the entire class, scientific research papers from the primary literature.

BIOL 4999F Senior Capstone Seminar: Coral Reef Ecology 3 Credits**Attributes:** BICP Biology Major Capstone Course, EVME Environmental Studies Major Elective, EVPE Environmental Studies Elective**Prerequisites:** 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**Attributes:** BICP Biology Major Capstone Course**Prerequisites:** 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**Attributes:** BICP Biology Major Capstone Course**Prerequisites:** 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**Attributes:** BICP Biology Major Capstone Course**Prerequisites:** 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 4999J Senior Capstone Seminar: Pathophysiology of Bone and Cartilage 3 Credits**Attributes:** BICP Biology Major Capstone Course**Prerequisites:** BIOL 1171, BIOL 1172, BIOL 1173, one course from the Physiology Block, senior standing.

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

BIOL 4999K Senior Capstone Seminar: Ichthyology 3 Credits**Attributes:** BICP Biology Major Capstone Course**Prerequisites:** 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**Attributes:** BICP Biology Major Capstone Course, EVME Environmental Studies Major Elective, EVNS Environmental Studies: Natural Science, EVPE Environmental Studies Elective**Prerequisites:** 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 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. Previously BI 0465.

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

Prerequisites: 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. Previously BEN 0201.

BIEG 3301 Biomedical Instrumentation 4 Credits

Attributes: HSST Health Studies: Science and Technology

Fee: \$120 Engineering Lab Fee

Prerequisites: 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. Previously BEN 0300.

BIEG 3331 Biomedical Signal Processing 3 Credits

Prerequisites: 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. Previously BEN 0331.

BIEG 3335 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. Graduate Equivalent: BIEG 5335.

BIEG 4309 Biosensors 3 Credits

Prerequisites: 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

Prerequisites: BIOL 1107 or BIOL 1108 or BIOL 1171 or BIOL 1172 or BIOL 1173; CHEM 1171.

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 4314 Introduction to Molecular Modeling 3 Credits

Prerequisites: 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: ECEG 5314.

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 4332 Biomedical Imaging 3 Credits

Attributes: HSST Health Studies: Science and Technology

Prerequisite: 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. Previously BEN 0332.

BIEG 4333 Biomedical Visualization**3 Credits****Prerequisite:** 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. Previously BEN 0333.

BIEG 4350 Medical Device Design**3 Credits****Attributes:** HSST Health Studies: Science and Technology**Prerequisite:** 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.

BIEG 4375 Bioelectronics**3 Credits****Prerequisite:** 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:** 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:** 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. Previously ME 0400.

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 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 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 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 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**

Attributes: ASTH American Studies Theme Course, BSFC Black Studies Focus Course, BSSS Black Studies: Social and Behavioral Sciences, MSID Magis Core: Interdisciplinary, PJST 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. Previously BL 0101.

BLST 4990 Independent Study**1-3 Credits**

Attributes: BSCP Black Studies Capstone Course, BSFC 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. Previously BL 0398.

Business (BUSN)

BUSN 1101 Messaging and Persuasion: Effective Business Communication**3 Credits**

Attributes: MWID 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 2980 Internship**1 Credit**

Prerequisite: 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. Previously BU 0397-0398.

BUSN 3211 Legal Environment of Business**3 Credits**

Prerequisite: Junior standing.

This course examines the broad philosophical as well as practical nature and function of the legal system, and introduces students to the legal and social responsibilities of business. The course includes an introduction to the legal system, the federal courts, Constitutional law, the United States Supreme Court, the civil process, and regulatory areas such as employment discrimination, protection of the environment, and corporate governance and securities markets. Previously BU 0211.

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**

Attributes: EVME Environmental Studies Major Elective, EVPE Environmental Studies Elective, EVSS Environmental Studies: Social Science, MGEL Management: General Elective, PAEP 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 Clean 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. Previously BU 0220.

BUSN 3391 Seminar in Business Ethics**3 Credits**

Attributes: MGEL Management: General Elective

Prerequisites: 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. Previously BU 0391.

BUSN 3980 Internship**3 Credits****Prerequisite:** 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. Previously BU 0395-0396.

BUSN 4320 Employment Law and Discrimination in the Workplace**3 Credits****Attributes:** MGEL 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. Previously BU 0320.

BUSN 6980 Business Immersion Practicum**1 or 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. Previously BU 0501/0591.

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:** 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:** 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:** 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:** 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:** 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**Prerequisites:** 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. Previously CH 0010.

CHEM 1033 Chemistry of Nutrition 3 Credits**Attributes:** EDCG Educational Studies Cognate, HSST 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. Previously CH 0033.

CHEM 1072 Philosophy and Biochemistry of Food and Eating Practices 3 Credits**Prerequisite:** 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. Previously CH 0072.

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**Attributes:** EVME Environmental Studies Major Elective, EVNS Environmental Studies: Natural Science, EVPE Environmental Studies Elective, MSID 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. Previously CH 0076.

CHEM 1077 Introduction to Forensic Science 3 Credits**Attributes:** EDCG Educational Studies Cognate

This course provides an introduction to the scientific techniques used for the analysis of common types of physical evidence encountered at crime scenes. Using critical thinking and laboratory experiences, students become crime scene investigators. They are charged with the task of solving a mock crime. The investigations include fabric analysis, ink analysis, blood analysis, DNA analysis, fingerprint analysis, ballistics, and/or blood alcohol analysis. The lecture part of the course focuses on exploring the underlying chemical principles behind the techniques and includes discussion of historical case studies. Note: This course counts as a science core course but does not satisfy requirements for the chemistry major or minor. Previously CH 0007.

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. Previously CH 0083.

CHEM 1085 Chemistry, Energy, and the Environment 3 Credits

Attributes: EDCG Educational Studies Cognate, EVME Environmental Studies Major Elective, EVNS Environmental Studies: Natural Science, EVPE Environmental Studies Elective, MSID 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. Previously CH 0085.

CHEM 1086 Chemistry and Art 3 Credits

Attributes: EDCG 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. Previously CH 0086.

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. Previously CH 0087.

CHEM 1171 General Chemistry I 3 Credits

Corequisite: 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. Previously CH 0111.

CHEM 1171L General Chemistry I Lab 1 Credit

Fee: \$120 Science Lab Fee

Corequisite: 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. Previously CH 0111L.

CHEM 1172 General Chemistry II 3 Credits

Attributes: HSST Health Studies: Science and Technology

Corequisite: CHEM 1172L.

Prerequisites: 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. Previously CH 0112.

CHEM 1172L General Chemistry II Lab 1 Credit

Fee: \$120 Science Lab Fee

Corequisite: 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. Previously CH 0112L.

CHEM 1184 General Chemistry for Health Science 3 Credits

Attributes: EDCG Educational Studies Cognate, HSST Health Studies: Science and Technology

Corequisite: 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. Previously CH 0084.

CHEM 1184L General Chemistry for Health Science Lab 1 Credit

Fee: \$120 Science Lab Fee

Corequisite: CHEM 1184.

This lab illustrates lecture concepts of CHEM 1184 and allows students to observe relevant physical systems. Previously CH 0084L.

CHEM 2271 Organic Chemistry I**3 Credits****Corequisite:** CHEM 2271L.**Prerequisite:** 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. Previously CH 0211.

CHEM 2271L Organic Chemistry I Lab**1 Credit****Fee:** \$120 Science Lab Fee**Corequisite:** CHEM 2271.

This lab emphasizes the manipulative techniques of separation, purification, analysis, and simple syntheses. Previously CH 0211L.

CHEM 2272 Organic Chemistry II**3 Credits****Corequisite:** CHEM 2272L.**Prerequisite:** 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. Previously CH 0212.

CHEM 2272L Organic Chemistry II Lab**1 Credit****Fee:** \$120 Science Lab Fee**Corequisite:** CHEM 2272.

This lab emphasizes investigative experiments, more complex synthesis, and qualitative organic analysis. Previously CH 0212L.

CHEM 2282 Chemical Analysis**3 Credits**

Attributes: EVME Environmental Studies Major Elective, EVNS Environmental Studies: Natural Science

Corequisite: CHEM 2282L.**Prerequisite:** CHEM 1172.

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. and CHEM 1172L. Previously CH 0222.

CHEM 2282L Chemical Analysis Lab**1 Credit**

Attributes: EVNS Environmental Studies: Natural Science, EVPE Environmental Studies Elective

Fee: \$120 Science Lab Fee**Corequisite:** 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. Previously CH 0222L.

CHEM 2291 Chemistry and Social Justice**3 Credits****Prerequisite:** 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 dependence on non-renewable natural resources.

CHEM 3311 Forensic Science in the Health Care Setting**3 Credits**

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:** \$120 Science Lab Fee**Corequisite:** 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. Previously CH 0323L.

CHEM 3324 Biochemistry I**3 Credits****Prerequisite:** 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. Previously CH 0324.

CHEM 3325 Biochemistry II**3 Credits****Prerequisite:** CHEM 2272.

This course focuses on the regulation of metabolic pathways involved in the synthesis, breakdown, and interconversion of biochemical intermediates that are fundamental to all life. Basic principles of biological thermodynamics will be highlighted in order to understand the processes by which living cells obtain and utilize energy. Students will develop an understanding of basic biomedical principles in the context of overall cell function. Crosslisted with BIOL 3325. Previously CH 0325.

CHEM 3326 Chemical Instrumentation**3 Credits**

Attributes: EVME Environmental Studies Major Elective, EVNS Environmental Studies: Natural Science, EVPE Environmental Studies Elective

Prerequisite: 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. Previously CH 0326.

CHEM 3326L Instrumental-Analytical Chemistry Lab 3 Credits

Attributes: EVME Environmental Studies Major Elective, EVNS Environmental Studies: Natural Science, EVPE Environmental Studies Elective

Fee: \$120 Science Lab Fee

Prerequisite: 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. Previously CH 0326L.

CHEM 3341 Advanced Inorganic Chemistry 3 Credits

Corequisite: 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. Previously CH 0341.

CHEM 3341L Advanced Inorganic Chemistry Lab 2 Credits

Fee: \$120 Science Lab Fee

Corequisite: 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. Previously CH 0341L.

CHEM 3361 Physical Chemistry I 3 Credits

Corequisite: CHEM 3361L.

Prerequisites: 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. Previously CH 0261.

CHEM 3361L Physical Chemistry I Lab 1 Credit

Fee: \$120 Science Lab Fee

Corequisite: 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. Previously CH 0261L.

CHEM 3362 Physical Chemistry II 3 Credits

Corequisite: CHEM 3362L.

Prerequisites: 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. Previously CH 0262.

CHEM 3362L Physical Chemistry II Lab 1 Credit

Fee: \$120 Science Lab Fee

Corequisite: 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. Previously CH 0262L.

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. Previously CH 0398.

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. Previously CH 0398.

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. Previously CH 0398.

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. Previously CH 0398.

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. Previously CH 0398.

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. Previously CH 0398.

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: 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. Previously CH 0399.

Chinese (CHIN)

CHIN 1110 Elementary Chinese I 3 Credits

Attributes: ANMC 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. Previously CI 0110.

CHIN 1111 Elementary Chinese II 3 Credits

Attributes: ANMC Asian Studies Elective

Prerequisite: 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. Previously CI 0111.

CHIN 2210 Intermediate Chinese I 3 Credits

Attributes: ANMC Asian Studies Elective

Prerequisite: 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. Previously CI 0210.

CHIN 2211 Intermediate Chinese II 3 Credits

Attributes: ANMC Asian Studies Elective

Prerequisite: 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. Previously CI 0211.

CHIN 2220 Advanced Chinese 3 Credits

Attributes: ANMC Asian Studies Elective

Prerequisite: 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. Previously CI 0220.

CHIN 2221 Reading China 3 Credits

Attributes: ANMC Asian Studies Elective

Prerequisite: 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. Previously CI 0221.

CHIN 2250 Modern China Through Fiction and Film 3 Credits

Attributes: ANMC Asian Studies Elective, DEIE Diversity, Equality, and Inclusion Elective, MELT 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. Previously CI 0250.

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. Previously CI 0381-0382.

Classical Studies (CLST)

CLST 1060 Masterpieces of Greek Literature in English Translation 3 Credits

Attributes: E_BF English Literature Before 1800

This course surveys major works of ancient Greek literature, emphasizing the content of this literature as a key to understanding classical Greek civilization and as meaningful in a contemporary context. This course may be taken to fulfill the Magis Core exploration tier requirement in literature. Crosslisted with ENGL 1060. Previously CL 0106.

CLST 1070 Masterpieces of Roman Literature in English**Translation****3 Credits****Attributes:** E_BF English Literature Before 1800

This course surveys major works of Roman literature of the republic and early empire, emphasizing the content of this literature as a key to understanding Roman civilization, and as meaningful in a contemporary context. This course may be taken to fulfill the Magis Core exploration tier requirement in literature. Crosslisted with ENGL 1070. Previously CL 0107.

CLST 1080 Myth in Classical Literature**3 Credits**

This course introduces students to classical mythology through an examination of the diverse ways in which myth and legend are treated in the literatures of ancient Greece and Rome. Students read texts in English translation; knowledge of Greek or Latin is not required. This course may be taken to fulfill the Magis Core exploration tier requirement in literature. Crosslisted with ENGL 1080. Previously CL 0108.

CLST 1090 Greek Tragedy in English Translation**3 Credits**

An intensive study in translation of the surviving works of Aeschylus, Sophocles and Euripides. Knowledge of Greek is not required. This course may be taken to fulfill the Magis Core exploration tier requirement in literature. Crosslisted with ENGL 1090. Previously CL 0109.

CLST 1115 Greek Civilization**3 Credits****Attributes:** MWAC 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 CL 0115.

CLST 1116 Roman Civilization**3 Credits****Attributes:** MWAC 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 CL 0116.

CLST 1270 Romantic Love in Greek and Roman Literature**3 Credits****Attributes:** E_BF English Literature Before 1800

The course of true love never did run smooth. From Homer's Penelope to Ovid's Remedies of Love we will examine the permutations of romantic desire and its frustrations in the literature of Greece and Rome. Readings also include selections from Sappho's poetry, Sophocles' Women of Trachis, Euripides' Hippolytos and Medea, comedies by Menander and Terence, Catullus poems to Lesbia, Vergil's tale of Dido and Aeneas, selections from the elegies of Tibullus Sulpicia, Propertius and Ovide, and briefer excerpts from other authors. All readings are in English translation. This course may be taken to fulfill the Magis Core exploration tier requirement in literature. Crosslisted with ENGL 1270. Previously CL 0127.

CLST 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 CL 0199.

CLST 2221 Hellenistic World, 336-30 BCE**3 Credits****Attributes:** H_BF History Before 1750, H_EU European History, H_NW Non-Western History**Prerequisite:** CLST 1115 or CLST 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 CL 0221.

CLST 2222 The Roman Revolution**3 Credits****Attributes:** H_BF History Before 1750, H_EU European History**Prerequisite:** 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 CL 0222.

CLST 2223 Roman World in Late Antiquity, 284-642 CE**3 Credits****Attributes:** H_BF History Before 1750, H_EU European History**Prerequisite:** CLST 1115 or CLST 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 CL 0223.

CLST 2224 Byzantine World**3 Credits****Attributes:** H_EU European History**Prerequisite:** CLST 1115 or CLST 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 CL 0224.

CLST 3325 Athenian Democracy and Empire**3 Credits****Attributes:** H_BF History Before 1750, H_EU European History**Prerequisite:** CLST 1115 or CLST 1116 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 CL 0325.

CLST 4999 Capstone Project in Classics**3 Credits**

Prerequisite: At least seven courses in the individually designed major. Students completing an individually designed major in classical studies develop and carry out a major project that allows them to pull together the multiple threads of their interdisciplinary major. Enrollment by permission only. Previously CL 0399.

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. Previously CO 0100.

COMM 1101 Argument and Advocacy**3 Credits**

This introduction to public speaking and the advocacy process includes topic identification; methods of organization, research, selection, and arrangement of support materials; audience analysis and adaptation; patterns and fallacies of reasoning; uses of evidence; logical proof; and refutation. Students practice and critique informative and persuasive presentations in this course, which is a skill required in all upper-level communication courses. Previously CO 0101.

COMM 1102 Introduction to Public Relations**3 Credits**

Attributes: SPEL 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. Previously CO 0102.

COMM 1108 Introduction to Sports Broadcasting**3 Credits**

Attributes: ENPC Digital Journalism Production Component

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. Previously FTM 0108.

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. Previously CO 0130.

COMM 1232 Television Studio Production**3 Credits**

Attributes: ENPC Digital Journalism Production Component, SPEL 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 FTM 0232, FTMA 2232, FTMA 1232.

COMM 2200 Interpersonal Communication Theories**3 Credits**

Prerequisite: 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. Previously CO 0200.

COMM 2201 Persuasion**3 Credits**

Prerequisite: 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. Previously CO 0201.

COMM 2202 Small Group Communication**3 Credits**

Prerequisite: 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. Previously CO 0202.

COMM 2205 Nonverbal Communication: Emojis, Emotions, and Employment**3 Credits**

Prerequisite: 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. Previously CO 0205.

COMM 2220 Introduction to Organizational Communication**3 Credits**

Attributes: BUEL Business Elective, SPEL Sports Media Elective

Prerequisite: 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. Previously CO 0220.

COMM 2231 Media Institutions**3 Credits****Attributes:** ENDE Digital Journalism Elective, SPEL Sports Media Elective**Prerequisite:** 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. Previously CO 0231.

COMM 2236 Gender, Sexuality, and Media**3 Credits****Attributes:** SPEL Sports Media Elective, WSGF Women, Gender, and Sexuality Studies: Gender Focused**Prerequisite:** 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. Previously CO 0236.

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. Previously CO 0237.

COMM 2238 Communication and Popular Culture**3 Credits****Attributes:** ASCO American Studies: Communication**Prerequisite:** 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. Previously CO 0238.

COMM 2239 Consumer Culture**3 Credits****Prerequisite:** 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." Previously CO 0239.

COMM 2240 Intercultural Communication**3 Credits****Attributes:** INEL International Studies Elective**Prerequisite:** 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. Previously CO 0240.

COMM 2241 Communication and Culture: East and West**3 Credits****Attributes:** ANMC Asian Studies Elective, INEL International Studies Elective**Prerequisite:** 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. Previously CO 0241.

COMM 2242 Alcohol, Addiction, and Culture**3 Credits****Attributes:** HSSS Health Studies: Social Science**Prerequisite:** 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 reflect on the ways in which we talk about alcohol use, abuse, and alcoholism, and how that "talk" cultivates harmful and helpful perceptions and behaviors. Previously CO 0242.

COMM 2246 Family Communication**3 Credits****Attributes:** WSGF Women, Gender, and Sexuality Studies: Gender Focused**Prerequisite:** 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. Previously CO 0246.

COMM 2250 Sports Media Industry**3 Credits****Prerequisite:** COMM 1130.

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. Previously CO 0250.

COMM 2252 Broadcast Communication**3 Credits****Attributes:** ENPC Digital Journalism Production Component, SPEL Sports Media Elective**Prerequisite:** 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****Attributes:** MWID Magis Core: Writing in the Discipline**Prerequisite:** 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 3233 Information Technologies: Economics, Law, and Policy**3 Credits****Attributes:** ENDE Digital Journalism Elective**Prerequisite:** COMM 1130.

An in-depth exploration of current issues and trends that shape the institutional environment of information industries and new media, both domestically and globally. By digesting and analyzing a diversity of scholarly sources, news reports, and materials generated by multiple stakeholders, students will gain a critical perspective on major economic, legal, and policy questions that affect the production, access to, circulation, and processing of digital content, such as broadband penetration, regulation of intellectual property, crowdsourcing, privacy, surveillance, net neutrality, emerging revenue models for information goods, and regulation and governance of the Internet. Previously CO 0233.

COMM 3245 Identities, Discourse, and Social Change**3 Credits****Attributes:** BSFC Black Studies Focus Course, BSSS Black Studies:

Social and Behavioral Sciences, PJST Peace and Justice Studies, WSGC Women, Gender, and Sexuality Studies: Gender Component

Prerequisite: 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. Previously CO 0245.

COMM 3248 Health Communication**3 Credits****Attributes:** HSSS Health Studies: Social Science, PAPH Public Administration Public Health**Prerequisite:** Sophomore standing.

This course surveys the multidimensional processes used to create, maintain, and transform complex scientific information into everyday healthcare practices. A major emphasis is on the processes and complexities of communicating health information in a variety of settings (in hospitals, families, insurance companies, policy organizations, etc.) and through different channels (face-to-face, in medical records, through the mass media, etc.). We will study the verbal and non-verbal communication behaviors of providers, patients, families, insurers, and others in healthcare contexts, as well as health-related messages in the mass media, in order to understand effective and problematic communication about illness and health. Previously CO 0248.

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****Prerequisites:** 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. Previously CO 0322.

COMM 3323 Gender and Organizing**3 Credits****Attributes:** WSGF Women, Gender, and Sexuality Studies: Gender Focused**Prerequisites:** 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. Previously CO 0323.

COMM 3324 Crisis Communication**3 Credits****Attributes:** HASM Humanitarian Action Minor Skills/Method Course, SPEL Sports Media Elective**Prerequisites:** 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. Previously CO 0324.

COMM 3325 Organizational Communication and Advertising**3 Credits****Attributes:** SPEL Sports Media Elective**Prerequisites:** 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. Previously CO 0325.

COMM 3326 Free Speech: Philosophical Origins to Digital Debates**3 Credits****Prerequisite:** 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****Attributes:** ENDE Digital Journalism Elective**Prerequisites:** 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. Previously CO 0331.

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:** 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****Attributes:** ENDE Digital Journalism Elective, INEL International Studies Elective**Prerequisites:** 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. Previously CO 0334.

COMM 3335 Globalization, Media, and Culture**3 Credits****Attributes:** INEL International Studies Elective**Prerequisites:** 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. Previously CO 0335.

COMM 3336 Media Infrastructures**3 Credits****Attributes:** INEL International Studies Elective**Prerequisite:** COMM 1130.

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. Previously CO 0355.

COMM 3337 Visual Communication**3 Credits****Attributes:** GDCO Graphic Design: Communication**Prerequisites:** 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. Previously CO 0337.

COMM 3340 Conflict Communication**3 Credits****Prerequisites:** 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. Previously CO 0340.

COMM 3342 Technoculture and Information Society**3 Credits****Prerequisites:** COMM 1130, junior standing.

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

COMM 3344 Interracial Communication**3 Credits****Attributes:** BSFC Black Studies Focus Course**Prerequisites:** 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. Previously CO 0344.

COMM 3345 Relational Communication**3 Credits****Prerequisites:** 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. Previously CO 0345.

COMM 3347 Communication in Healthcare Organizations**3 Credits****Attributes:** HSSS Health Studies: Social Science**Prerequisite:** 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. Previously CO 0347.

COMM 3348 Health Risk Communication**3 Credits**

Attributes: EVAP Environmental Studies: Applied Professional Skills , HSSS Health Studies: Social Science, PAPH Public Administration Public Health

Prerequisite: 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. Previously CO 0348.

COMM 3351 Dark Side of Communication**3 Credits**

Prerequisite: 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. Previously CO 0351.

COMM 4318 Lying and Deception**3 Credits**

Prerequisite: 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. Previously CO 0318.

COMM 4321 Communication Processes in Organizations: Negotiation**3 Credits**

Attributes: EVAP Environmental Studies: Applied Professional Skills

Prerequisites: 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. Previously CO 0321.

COMM 4328 Palliative Care Communication: USA & Italy**3 Credits**

Attributes: HSSS Health Studies: Social Science, MSID Magis Core: Interdisciplinary

Fee: \$-855

Prerequisite: 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 CO 0326, COMM 4326.

COMM 4330 Misinformation in Digital Media**3 Credits**

Prerequisites: 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. Previously CO 0330.

COMM 4332 Children as Media Consumers**3 Credits**

Prerequisites: 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. Previously CO 0332.

COMM 4333 News Media and Democracy**3 Credits**

Attributes: ENDE Digital Journalism Elective

Prerequisites: 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. Previously CO 0333.

COMM 4336 Social Media**3 Credits****Prerequisites:** 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. Previously CO 0336.

COMM 4339 Topics in Media Theory and Criticism**3 Credits****Prerequisites:** 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. Previously CO 0339.

COMM 4341 End of Life Communication**3 Credits****Attributes:** HSSS Health Studies: Social Science**Prerequisite:** 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. Previously CO 0341.

COMM 4343 Ethics and Medical Marketing Communication**3 Credits****Attributes:** HSTE Health Studies: Traditions, Delivery, and Ethics**Prerequisite:** 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. Previously CO 0343.

COMM 4346 Communication and Spirituality**3 Credits****Prerequisites:** 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. Previously CO 0346.

COMM 4350 Family Crisis Communication**3 Credits****Attributes:** HSTE Health Studies: Traditions, Delivery, and Ethics**Prerequisite:** 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. Previously CO 0350.

COMM 4352 Global Mediated Activism**3 Credits****Attributes:** INEL International Studies Elective**Prerequisite:** 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. Previously CO 0352.

COMM 4353 Latin American Media and the United States**3 Credits****Attributes:** LCEL LACS Minor: Elective**Prerequisite:** 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:** 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. Previously CO 0360.

COMM 4900 Special Topics (Shell)**3 Credits****Prerequisites:** 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. Previously CO 0349.

COMM 4980 Internship**1-3 Credits****Prerequisite:** 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. Previously CO 0399.

COMM 4990 Independent Study**1-3 Credits****Prerequisite:** 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. Previously CO 0397.

COMM 4999 Capstone: Research Projects in Communication**3 Credits****Prerequisites:** 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. Previously CO 0309.

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. Previously CO 0497M.

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. Previously CO 0497U.

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. Previously CO 0497A.

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. Previously CO 0497J.

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. Previously CO 0497F.

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 CO 0497S, 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. Previously CO 0497Q.

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. Previously CO 0497E.

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. Previously CO 0497G.

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. Previously CO 0497L.

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. Previously CO 0497H.

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. Previously CO 0497O.

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. Previously CO 0497D.

COMM 5342 Technoculture and Information Society**3 Credits**

This course explores phenomena, trends, and theories related to emerging information and communication technologies (ICTs), as well as relationships among those technologies, socioeconomic structures, "old" media institutions, media users, and culture. Through a combination of theoretical and practical explorations that emphasize historical, ethical, and critical thinking, the course introduces students to academic and non-academic perspectives on new media. Undergraduate equivalent: COMM 3342. Previously CO 0497C.

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. Previously CO 0497K.

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. Previously CO 0497P.

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. Previously CO 0497N.

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. Previously CO 0497W.

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. Previously CO 0497R.

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. Previously CO 0497V.

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. Previously CO 0497T.

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. Previously CO 0400.

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. Previously CO 0420.

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. Previously CO 0440.

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. Previously CO 0410.

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. Previously CO 0430.

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. Previously CO 0431.

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. Previously CO 0432.

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. Previously CO 0448.

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. Previously CO 0500.

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. Previously CO 0502.

COMM 5522 Communication and Organizational Leadership 3 Credits

This course focuses on the communication behaviors that constitute leadership. Models explore interpersonal influence, power in organizations, leading decision-making teams and task-oriented groups, and developing situational leadership skills. Early and contemporary research perspectives on leadership are reviewed and critically analyzed. Student projects include case studies and reviews of role-model leaders. Previously CO 0522.

COMM 5524 Negotiation and Conflict Management: Communication Approaches 3 Credits

This course explores a selection of conflict situations with particular emphasis on organizational and community settings. Theoretical exploration focuses on the nature of conflict, and negotiation and dialogue as communication processes. The course privileges win-win and dialogic approaches and provides experiential learning in simulations in which teams of students negotiate detailed and practicable outcomes for resolving contemporary organizational and societal problems. Previously CO 0524.

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. Previously CO 0530.

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. Previously CO 0531.

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. Previously CO 0532.

COMM 5537 New Media Studies 3 Credits

The digital and social media that have emerged in the past decade are reshaping our world in profound ways - this course explores those developments in light of both extended history and the contemporary moment. Through a mix of scholarly and journalistic readings, we will inquire into the ways in which culture, community, and identity are undergoing change alongside marketing, politics, and the "mass" communication industries. Our focus will include a wide variety of new media platforms, practices, and issues drawn from social networking, mobile, and online content, as we cultivate a critical lens on society's increasing digitalization (and its discontents). Previously CO 0537.

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. Previously CO 0539.

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. Previously CO 0540.

COMM 5545 Race, Identity, Representation**3 Credits**

Rooted in a constitutive approach to communication, this course advances the notion that identities are not bound within the self, but rather, are socially negotiated through communication practices and are situated firmly in cultural and historical settings. Specifically, this course examines how racial identities emerge, reform, and are redirected through discourse. In addition to exploring how racial categorizations are socially constructed, this course attends to contemporary representations of race within media, education, and health care systems. Further, students in this course will interrogate social issues involving structural inequality, privilege, power, and hegemony. Previously CO 0545.

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. Previously CO 0547.

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. Previously CO 0548.

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. Previously CO 0498.

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. Previously CO 0559.

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. Previously CO 0570.

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. Previously CO 0571.

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. Previously CO 0560.

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. Previously CO 0561.

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. Previously CO 0598.

Computer Engineering (CPEG)

CPEG 2245 Digital Design I

3 Credits

Corequisite: 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. Previously CR 0245.

CPEG 2245L Digital Design I Lab

1 Credit

Fee: \$120 Engineering Lab Fee**Corequisite:** 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. Previously CR 0245L.

CPEG 3246 Digital Electronics Design II

3 Credits

Prerequisite: 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. Previously CR 0246.

CPEG 3331 Biomedical Signal Processing

3 Credits

Prerequisites: 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. Previously CR 0331.

CPEG 3346 Computer Systems Architecture

3 Credits

Prerequisite: 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. Previously CR 0346.

CPEG 4320 Computer Networks

3 Credits

Prerequisites: 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. Previously CR 0320.

CPEG 4325 Computer Graphics

3 Credits

Prerequisite: 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. Previously CR 0325.

CPEG 4332 Biomedical Imaging

3 Credits

Prerequisite: 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. Previously CR 0332.

CPEG 4333 Biomedical Visualization

3 Credits

Prerequisite: 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. Previously CR 0333.

Computer Science (CPSC)

CPSC 1101 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. Previously CS 0101.

CPSC 1131 Fundamentals of Programming

3 Credits

Attributes: BUEL Business Elective, ENPC Digital Journalism Production Component

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. Previously CS 0131.

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. Previously CS 0152.

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. Previously CS 0201.

CPSC 2231 Programming Workshop**3 Credits****Corequisite:** CPSC 2231L.**Prerequisite:** 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. Previously CS 0231.

CPSC 2231L Programming Workshop Lab**1 Credit****Corequisite:** CPSC 2231.

This lab accompanies the Programming Workshop course for hands-on practice with course concepts. Previously CS 0231L.

CPSC 2232 Data Structures**3 Credits****Corequisite:** CPSC 2232L.**Prerequisite:** 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. Previously CS 0232.

CPSC 2232L Data Structures Lab**1 Credit****Corequisite:** CPSC 2232.

This lab accompanies the Data Structures course for hands-on practice with course concepts. Previously CS 0232L.

CPSC 2250L Computer Science Sophomore Clinic**1 Credit****Corequisite:** 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. Previously CS 0250L.

CPSC 2304 Web Development**3 Credits****Attributes:** ENPC Digital Journalism Production Component**Prerequisite:** 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. Previously CS 0304.

CPSC 3333 Introduction to Cybersecurity**3 Credits****Prerequisite:** 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. Previously CS 0333.

CPSC 3343 Design and Analysis of Algorithms**3 Credits****Prerequisite:** 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. Previously CS 0343.

CPSC 3349 Cloud Computing**3 Credits****Prerequisite:** 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:** 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. Previously CS 0350L.

CPSC 3352L Computer Science Junior Clinic II**1 Credit****Corequisite:** 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. Previously CS 0351L.

CPSC 3354 Theory of Programming Languages**3 Credits****Prerequisite:** 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. Previously CS 0354.

CPSC 4305 Mobile Application Development**3 Credits****Prerequisite:** 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. Previously CS 0305.

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. Previously CS 0314.

CPSC 4315 Computational Biology**3 Credits****Prerequisite:** 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. Previously CS 0315.

CPSC 4317 Computational Statistics for Biomedical Sciences**3 Credits****Prerequisite:** 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. Previously CS 0317.

CPSC 4322 Visual Analytics**3 Credits****Prerequisite:** Junior standing.

In this course, students investigate visual analytics tools and techniques used to synthesize information and derive insight from massive, dynamic, ambiguous, and often conflicting data and to communicate the findings effectively for decision-making. Extensive use of case studies based on real-world events will be used to illustrate course concepts. Students will apply visual analytics techniques toward a focused research problem in a real-world application or a domain of interest. Graduate equivalent: SWEG 5322. Previously CS 0320.

CPSC 4331 Operating Systems**3 Credits****Prerequisite:** CPSC 2232.

This course introduces students to the basic 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. Previously CS 0331.

CPSC 4335 Digital Forensics**3 Credits****Prerequisite:** 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:** 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:** 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. Previously CS 0355.

CPSC 4357 Database Management Systems**3 Credits****Prerequisite:** 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. Previously CS 0357.

CPSC 4360 Machine Learning**3 Credits****Prerequisite:** 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:** CPSC 1101, CPSC 4360, Junior or Senior Standing.

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:** 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:** 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 CN 0465, 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. Previously CN 0410.

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. Previously CN 0432.

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. Previously CN 0433.

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. Previously CN 0446.

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. Previously CN 0447.

COUN 5454 Introduction to Counseling Children and Adolescents 3 Credits

Prerequisites: 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. Previously CN 0454.

COUN 5457 Career Development: Theory and Practice 3 Credits

Fee: \$85 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. Previously CN 0457.

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. Previously CN 0468.

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. Previously CN 0500.

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. Previously CN 0531.

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. Previously CN 0553.

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. Previously CN 0403.

COUN 6250 Diagnosis and Treatment Across the Lifespan 3 Credits

Prerequisite: 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**Prerequisites:** 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**Prerequisites:** COUN 5501, 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. Previously CN 0455.

COUN 6467 Assessment in Counseling 3 Credits**Fee:** \$85 SEHD Lab Fee**Prerequisite:** 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. Previously CN 0467.

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. Previously CN 0515.

COUN 6524 Domestic Violence in Nicaragua 3 Credits
Prerequisite: 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. Previously CN 0524.

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. Previously CN 0525.

COUN 6531 Advanced School Counseling 3 Credits**Prerequisite:** 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:** 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. Previously CN 0533.

COUN 6553 Advanced Skills and Techniques in Counseling 3 Credits**Prerequisites:** 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: 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: 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 6566 Substance Use and the Family 3 Credits

Prerequisite: 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. Previously CN 0566.

COUN 6585 Introduction to Clinical Supervision 3 Credits

Prerequisite: 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. Previously CN 0585.

COUN 6840 Consultation and Collaboration for School Counselors 3 Credits

Prerequisites: 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

Prerequisites: 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. Previously CN 0558.

COUN 6981 Clinical Mental Health Counseling Internship I 3 Credits

Prerequisite: 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. Previously CN 0590C.

COUN 6982 Clinical Mental Health Counseling Internship II 3 Credits

Prerequisite: 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. Previously CN 0590C.

COUN 6983 School Counseling Internship I 3 Credits

Prerequisite: 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. Previously CN 0590S.

COUN 6984 School Counseling Internship II 3 Credits

Prerequisite: 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. Previously CN 0590S.

COUN 6985 School Counseling Internship for Teachers 6 Credits**Prerequisite:** 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. Previously CN 0590S.

COUN 6986 Clinical Mental Health Counseling Internship Continuing 0-3 Credits**Prerequisite:** 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. Previously CN 0591C.

COUN 6987 School Counseling Internship Continuing 0-3 Credits**Prerequisite:** 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. Previously CN 0591C.

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. Previously CN 0595.

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. Previously CN 0099.

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. Previously CN 0098.

Digital Journalism (DJOU)

DJOU 1860 News Media and Society 3 Credits**Attributes:** ENDE 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**Attributes:** SPEL Sports Media Elective**Prerequisite:** 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, ENW 0220.

DJOU 1872 Introduction to Sports Writing 3 Credits

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, ENW 0223.

DJOU 2370 News Writing II: Digital Design 3 Credits**Attributes:** SPEL Sports Media Elective**Prerequisite:** 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, ENW 0221.

DJOU 2380 Journalism Editing and Design 3 Credits**Attributes:** ENDE Digital Journalism Elective, ENEC Digital Journalism Ethics Component

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, ENW 0222.

DJOU 2382 The Power of Podcasting**3 Credits**

Attributes: ENDE Digital Journalism Elective, SPEL Sports Media Elective
Prerequisite: 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, ENW 0224.

DJOU 2384 Media Law and Ethics**3 Credits**

Attributes: ENEC Digital Journalism Ethics Component
Prerequisite: 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, ENW 0230.

DJOU 3320 Writing the Feature Story**3 Credits**

Attributes: ENDE Digital Journalism Elective, SPEL Sports Media Elective
Prerequisite: 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, ENW 0320.

DJOU 3330 Big Data Storytelling**3 Credits**

Prerequisite: 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, ENW 0321.

DJOU 3340 Photojournalism**3 Credits**

Attributes: ENDE Digital Journalism Elective, ENPC Digital Journalism Production Component, SPEL Sports Media Elective
Prerequisite: 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, ENW 0323.

DJOU 3350 Issues in News Writing**3 Credits**

Attributes: ENDE Digital Journalism Elective
Prerequisite: 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, ENW 0329.

DJOU 3370 Sports Journalism**3 Credits**

Attributes: ENDE 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, ENW 0342.

DJOU 4951 Journalism Practicum**3 Credits**

Attributes: ENCP Digital Journalism Capstone Course, ENDE Digital Journalism Elective, SPEL Sports Media Elective

Prerequisites: 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, ENW 0397.

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. Previously EC 0011.

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. Previously EC 0012.

ECON 2112 Economic Aspects of Current Social Problems**3 Credits**

Attributes: BUEL Business Elective

This course uses a policy-oriented approach to study contemporary economic issues. Topics include government spending, the role of federal budgets in solving national problems, poverty, welfare, social security, population, the limits to growth controversy, pollution, energy, and regulation. Previously EC 0112.

ECON 2114 Economics of Race, Class, and Gender in the American Workplace 3 Credits

Attributes: EDCG Educational Studies Cognate, WSGF Women, Gender, and Sexuality Studies: Gender Focused

This course examines the impact of race, class, and gender differences on decisions made in households and in the workplace. It begins with an in-depth analysis of labor supply decisions and responsibilities of households, moving to an examination of labor demand decisions and wage-rate determination. The course reviews applications of theoretical predictions as they relate to important public policy issues such as child and elder care, social security, pay equity, the glass ceiling, affirmative action, sexual harassment, and poverty. Previously EC 0114.

ECON 2120 Introduction to Environmental Economics 3 Credits

Attributes: ANMC Asian Studies Elective, EVME Environmental Studies Major Elective, EVPE Environmental Studies Elective, EVSS Environmental Studies: Social Science, IBEL International Business Elective, INEL International Studies Elective, LCEL LACS Minor: Elective, PAEP 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. Previously EC 0120.

ECON 2140 Health Economics 3 Credits

Attributes: HACA Humanitarian Action Minor Context Course, HSSS Health Studies: Social Science, PAPH Public Administration Public Health, PJST Peace and Justice Studies

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. Previously EC 0140.

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. Previously EC 0150.

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. Previously EC 0152.

ECON 2154 Contemporary Issues Affecting the Global Business Environment 3 Credits

Attributes: INEL International Studies Elective

Prerequisites: 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 flow of investment to developing countries and emerging markets, and the status of global and regional integration and/or potential disintegration. Through the study of these current real-world topics in international business, students will learn about challenges and opportunities of doing business in an interconnected global environment while working with international organizations, local governments, and global competitors. Previously ECON 1054.

ECON 2185 Regional Economic Development 3 Credits

Attributes: PACG Public Administration City Government, PALE 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. Previously EC 0185.

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: 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. Previously EC 0204.

ECON 3205 Intermediate Macroeconomic Theory**3 Credits****Prerequisite:** 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. Previously EC 0205. Previously EC 0205.

ECON 3210 Money and Banking**3 Credits****Prerequisite:** ECON 1012.

This course covers the commercial banking industry, the money market, Federal Reserve operations and policy making, and monetary theory. Previously EC 0210.

ECON 3224 Labor Economics and Labor Relations**3 Credits****Attributes:** PACG Public Administration City Government**Prerequisites:** 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. Previously EC 0224.

ECON 3225 Applied Environmental Economics**3 Credits**

Attributes: EVME Environmental Studies Major Elective, EVPE Environmental Studies Elective, EVSS Environmental Studies: Social Science, PAEP Public Administration Environment Policy

Prerequisite: 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. Previously EC 0225.

ECON 3230 Comparative Economic Systems**3 Credits**

Attributes: ANMC Asian Studies Elective, IBEL International Business Elective, INEL International Studies Elective, RSEC Russian Studies Minor: Economics

Prerequisite: 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. Previously EC 0230.

ECON 3231 International Trade**3 Credits**

Attributes: IBEL International Business Elective, INEL International Studies Elective

Prerequisite: 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. Previously EC 0231.

ECON 3233 International Economic Policy and Finance**3 Credits**

Attributes: IBEL International Business Elective, INEL International Studies Elective

Prerequisite: 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. Previously EC 0233.

ECON 3235 Economic Development**3 Credits**

Attributes: ANMC Asian Studies Elective, DEIE Diversity, Equality, and Inclusion Elective, IBEL International Business Elective

Prerequisites: FNCE 3210 or FNCE 3215.

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. Previously EC 0235.

ECON 3236 Income Inequality**3 Credits**

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**

Attributes: HASM Humanitarian Action Minor Skills/Method Course, IBEL International Business Elective, INEL International Studies Elective, LCEL LACS Minor: Elective, MSID Magis Core: Interdisciplinary

Prerequisites: 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. Previously EC 0237.

ECON 3244 Behavioral Economics**3 Credits****Prerequisites:** 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**Attributes:** BUEL Business Elective**Prerequisite:** 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. Previously EC 0250.

ECON 3252 Urban Economics 3 Credits**Attributes:** PALE Public Administration Economic Development**Prerequisites:** 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. Previously EC 0252.

ECON 3270 Engineering Economics 3 Credits**Prerequisite:** 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. Previously EC 0270.

ECON 3275 Managerial Economics 3 Credits**Attributes:** BUEL Business Elective**Prerequisite:** 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. Previously EC 0275.

ECON 3276 Public Finance 3 Credits**Attributes:** PALE Public Administration Economic Development**Prerequisites:** 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. Previously EC 0276.

ECON 3278 Economic Statistics 3 Credits**Attributes:** EVAP Environmental Studies: Applied Professional Skills**Prerequisites:** 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. Previously EC 0278.

ECON 3290 Mathematical Economics 3 Credits**Attributes:** BUEL Business Elective**Prerequisites:** ECON 1011, ECON 1012, MATH 1016.

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. Previously EC 0290.

ECON 3340 Environmental, Social and Governance Investing 3 Credits**Attributes:** EVME Environmental Studies Major Elective, EVPE

Environmental Studies Elective, EVSS Environmental Studies: Social Science

Prerequisite: Select one course from: ECON 1011; ECON 1012; FNCE 2101.

ESG investing presents the arguments for maximizing shareholder returns, alternative theories of the firm and various approaches for investors to 'do well while doing good'. Topics covered include impact investing, sustainable investing, shareholder activism, and religious values investing. Empirical performance of ESG funds will be reviewed, providing evidence to those who wish to participate in ESG investing as well as those looking to improve their competency in the area of these increasingly prominent strategies.

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. Previously EC 0299.

ECON 4305 Innovation and Economic Growth 3 Credits**Prerequisite:** ECON 3205.

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 EC 0305.

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:** 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. Previously EC 0320.

ECON 4380 Econometrics**3 Credits****Attributes:** MWID Magis Core: Writing in the Discipline**Prerequisites:** 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. Previously EC 0380.

ECON 4391 Microeconomics Seminar**3 Credits**

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. Previously EC 0397.

ECON 4392 Macroeconomics Seminar**3 Credits**

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. Previously EC 0398. **Prerequisite:** ECON 3205

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. Previously EC 0298.

ECON 5380 Econometrics**3 Credits****Prerequisites:** 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. Previously EC 0410.

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. Previously EC 0415.

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 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: 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: 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. Previously ED 0200.

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. Previously ED 0329.

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. Graduate equivalent: EDUC 5442. Previously ED 0241.

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. Previously ED 0350.

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. Previously ED 0455.

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. Previously ED 0581.

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. Previously ED 0405.

EDUC 5410 Literature for Young Adults**3 Credits**

Attributes: EDCG Educational Studies Cognate, E_AF English Literature After 1800

During the past two decades, adolescent literature has proliferated, grown more diverse, and improved in richness and quality. The course explores the major current authors, poets, and illustrators of works written for young adults. Topics include theories and purposes of reading literature in the classroom; criteria development for evaluating adolescent literature; reader response in the classroom; reading workshop; and adolescent literature integration across the curriculum. Previously EN 0405.

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. Previously EN 0411.

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. Previously EN 0417.

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. Previously ED 0429.

EDUC 5431 Extending Literacy in the Elementary School: Grades 3-6**3 Credits**

Prerequisite: 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. Previously ED 0431.

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. Previously ED 0437.

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. Previously ED 0441.

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. Undergraduate equivalent: EDUC 3241. Previously ED 0442.

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. Previously ED 0447.

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. Previously ED 0455.

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. Previously ED 0462.

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. Previously ED 0463.

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. Previously ED 0464.

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. Previously ED 0466.

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. Previously ED 0468.

EDUC 5493 Educational Imagination: Exploring Multicultural Identities & Curriculum in a Cross-Cultural Context**3 Credits**

This course explores alternative approaches to education. Drawing on the works of liberatory educators, such as Paulo Freire and Maxine Greene, as well as the arts and popular culture, this course provides the basis for dialogue on the transformative power of our imagination. This course views the teacher's role as one of empowering students to think critically about themselves and their relation to education and a multicultural society, and the student's role as one of active participation in the learning process. Connecting theory, practice and personal experience in useful and imaginative ways, we will, in the words of Maxine Greene, begin to see: schooling as it could be otherwise; teaching as it could be otherwise; learning as it could be otherwise; culture as it could be otherwise; the world as it could be otherwise. Previously ED 0493.

EDUC 5497 Teaching Science in the Elementary Classroom**3 Credits**

This course includes a comprehensive study of the principles, methods, and materials necessary for teaching science at the elementary level. Candidates explore effective elements of instruction as they relate to practical applications in the classroom. The course addresses teaching science through readings, active participation in class activities, lesson/unit plan design and micro-teaching, class discussions, and individual reflections. Guided by current research and practice in science education, candidates in this course design science curricula for the elementary grades that develop content knowledge, science inquiry skills, critical thinking, problem solving, social responsibility, and technological competence. This course includes a required 10-hour field component. Previously ED 0497.

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. Previously ED 0581.

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. Previously ED 0589.

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. Previously ED 0591.

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. Previously ED 0592.

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. Previously ED 0593.

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. Previously ED 0594.

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. Previously ED 0403.

EDUC 5981 K-12 Teaching Internship Seminar for Initial Certification Candidates**1 Credit**

Prerequisite: 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. Previously ED 0401.

EDUC 6501 Practicum for Literacy Teacher Consultants**2 or 3 Credits**

Prerequisite: ED 0561.

The Practicum for Literacy Teacher Consultants will focus on the following: research on literacy issues; exploration of best practices in the teaching of literacy to all students; theory and practice of providing leadership for teachers who use reading, writing, and thinking in the courses they teach. Students who successfully complete the Practicum will become teacher/consultants for the Connecticut Writing Project: Fairfield. Previously ED 0501.

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. Previously ED 0512.

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. Previously ED 0515.

EDUC 6522 Learning and the Child's Experience 3 Credits

Prerequisite: EDUC 5405 or EDUC 5437 or EDUC 5447 or EDUC 5497.

Drawing from classic and current cross-disciplinary theory and practice, candidates in this course gain a comprehensive, culturally sensitive knowledge of how children and young adolescents in the elementary grades learn, think, and interact as social beings. Candidates consider the development of individual children within the larger context of educational institutions. Beginning with an introduction of Piaget's and Vygotsky's frameworks for the understanding of development, candidates further explore constructivism and socio-historical cultural views of learning as they consider the relevance of theory for teaching practices. Previously ED 0522.

EDUC 6530 Assessment and Differentiated Instruction 3 Credits

Teacher candidates in this course will become familiar with principles and techniques necessary to plan, select, administer, interpret, and assess a differentiated range of student learning activities and instructional methods. Candidates will learn to use traditional norm-referenced instruments, curriculum-based assessments, formal observations, interviews, criterion-referenced assessments, and other alternative assessments to guide differentiated planning and instruction. Previously ED 0530.

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. Previously ED 0534.

EDUC 6545 Developing Integrated Curriculum for Elementary Students: Inquiry and Action 3 Credits

Prerequisites: 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

Prerequisite: Completion of all other MA requirements.

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. This course is part of a six-credit sequence, paired with EDUC 6999. Previously ED 0552.

EDUC 6559 Empowering Struggling Readers and Writers in the Elementary Grades 3 Credits

In this course, elementary teacher candidates work to meet the literacy learning needs of struggling learners. Under the guidance of certified literacy specialists, candidates assess learning needs, and, in collaboration with classroom teachers and appropriate specialists, provide instructional interventions for individuals or small groups of struggling readers and writers. A minimum of 25 hours of fieldwork are required. Enrollment by permission only. Previously ED 0559.

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 encouraged to apply for the practicum following the institute. Previously ED 0561.

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. Previously ED 0572.

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. Previously ED 0573.

EDUC 6575 Theory and Practice of Integrated Curriculum Design 3 Credits

In this course candidates explore theories of critical pedagogy design and teaching. They develop and implement differentiated, culturally sensitive inquiry and action-oriented interdisciplinary curriculum units. Candidates learn to develop students' content knowledge, inquiry tools, technological competence, social responsibility, and critical thinking. Current emphasis in this course is on integrating science, social studies and health curricula. This is an advanced course for those already certified or MA degree-only candidates. Previously ED 0575.

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. Previously ED 0579.

EDUC 6580 Directed Observation for Secondary DSAP Candidates: Part II 3 Credits

Prerequisites: 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. Previously ED 0580.

EDUC 6581 Directed Observation and Supervised Student Teaching: Secondary Education 3-6 Credits

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

This course offers a semester-long experience in a local school for qualified candidates in secondary teaching. Participants engage in observation and teaching five days each week. Emphasized concepts include classroom management dynamics, teaching techniques, lesson plan organization, and faculty duties. Candidates receive assistance from their university supervisors and the cooperating teacher(s), who must observe and evaluate each student. Candidates must register with the director of student teaching placement at the beginning of the previous semester. Previously ED 0581.

EDUC 6583 Elementary Student Teaching: Immersion in a Community of Practice 6 Credits

This course offers a stimulating semester-long experience in an elementary school classroom within a local priority school district. Under the guidance of university supervision and intensive mentoring by cooperating teachers, participants quickly assume full teaching responsibilities, including curriculum and lesson planning anchored in the principles of multicultural education and social responsibility, differentiated instruction, and effective organization and management, while carrying out other faculty duties, including participation in school governance and professional development. As educators for social justice and social responsibility, they engage in related school and community-based activities with students, families, and community members. Participants must register with the director of student teaching placement at the beginning of the previous semester. Enrollment requires performance-based assessment including, but not limited to, successful completion of all prerequisite certification track courses and requirements while a matriculated candidate in the Elementary Education MA program, permission of the elementary education program director, and an interview with the director of student teaching placements. Previously ED 0583.

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. Previously ED 0584.

EDUC 6585 Supervised Teaching, Learning, and Reflection in a Community of Practice: Part I 3 Credits

This course is the first of a two-semester supervised experience designed for candidates for whom traditional student teaching is not appropriate because they are currently teaching in an elementary school. The evaluative tools used align with those used for student teaching and BEST assessment. In addition, the course incorporates monthly seminar meetings. Although much of the seminar's subject matter flows from the ongoing teaching experience, it deliberately addresses issues such as socially responsible teaching, professional disposition and habits of mind, teacher research, school governance, classroom management, conflict resolution, communication with parents/caregivers, and sensitivity to multicultural issues and inclusion. Continued professional development is stressed, including development of a professional portfolio, continued study and research, and establishing a supportive collegial network. Under the guidance of university supervision, teacher candidates assume full teaching responsibilities, including curriculum and lesson planning anchored in the principles of multicultural education and social responsibility, differentiated instruction, and effective organization and management, while carrying out other faculty duties, including participation in school governance and professional development. As educators for social justice and social responsibility, they engage in related school and community-based activities with students, families, and community members. Enrollment requires state-approved waiver of student teaching; performance-based assessment, including but not limited to successful completion of at least 27 prerequisite certification track credits and related course requirements while a matriculated candidate in the Elementary Education MA program, and permission of the Elementary Education program director. Previously ED 0585.

EDUC 6586 Supervised Teaching, Learning, and Reflection in a Community of Practice: Part II 3 Credits
Prerequisite: EDUC 6585.

This course is the second of a two-semester supervised experience designed for candidates for whom traditional student teaching is not appropriate because they are currently teaching in an elementary school. Part one must be taken during the preceding semester. The evaluative tools used align with those used for student teaching and BEST assessment. In addition, the course incorporates monthly seminar meetings. Although much of the seminar's subject matter flows from the ongoing teaching experience, it deliberately addresses issues such as socially responsible teaching, professional disposition and habits of mind, teacher research, school governance, classroom management, conflict resolution, communication with parents/caregivers, and sensitivity to multicultural issues and inclusion. Continued professional development is stressed, including development of a professional portfolio, continued study and research, and establishing a supportive collegial network. Under the guidance of University supervision, teacher candidates assume full teaching responsibilities including curriculum and lesson planning anchored in the principles of multicultural education and social responsibility, differentiated instruction, and effective organization and management; while carrying out other faculty duties, including participation in school governance and professional development. As educators for social justice and social responsibility, they engage in related school and community-based activities with students, families and community members. Previously ED 0586.

EDUC 6590 Reflective Research Practicum in Teaching 3 Credits
Participants solve a practical problem in classroom teaching by applying educational research to a specific school situation. Previously ED 0590.**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. Previously ED 0591.

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. Previously ED 0592.

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. Previously ED 0593.

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. Previously ED 0594.

EDUC 6598 edTPA Portfolio**0 Credits****Fee:** \$300**Prerequisite:** 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. Previously ED 0598.

EDUC 6599 Professional Writing Seminar: Product of Learning 1-3 Credits**Prerequisite:** Completion of student teaching.

During this seminar, candidates complete a self-designed Product of Learning. Under advisement of the program faculty, candidates produce a learning outcome that relates directly to their future work as an educator (i.e., design an elective course in their field, submit a manuscript for publication, deliver a presentation at a regional or national conference, etc. Math candidates must complete the problem-solving portfolio for their product. Consult with advisor for information) Candidates are expected to develop authentic educational products, with the expectation that candidate-generated products will become contributions to the candidate's specialty area (i.e., English Education, Social Studies Education, etc). The process for this product will be supported in a 10-hour writing seminar course that, with substantial independent work, would be supervised by faculty editorial and revision input toward the development of worthy professional products. Students will be encouraged to work alongside peers who are also completing the Product of Learning. Previously ED 0599.

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. Previously ED 0595.

EDUC 6999 Capstone: Educating for Social Responsibility and Civic Engagement**3 Credits**

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 builds on work initiated in EDUC 6552: Research in Action and Advocacy in School and Community Settings. This course is part of a two-part sequence with EDUC 6552 that explores the ways educational professionals can promote social responsibility in their work with schools, communities, and families. Previously ED 0511.

Educational Leadership (EDDL)

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:** 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:** 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 affect 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 autoethnography, 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**

Prerequisites: EDDL 7035, EDDL 7040.

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**

Prerequisites: EDDL 7035, EDDL 7040.

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**

Prerequisites: EDDL 7035, EDDL 7040.

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**

Prerequisites: EDDL 7035, EDDL 7040.

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: 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: 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
Prerequisite: EDDL 7095.

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: 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 4301 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. Previously MD 0300.

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 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. Previously MD 0400.

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. Previously MD 0403.

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. Previously MD 0404.

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. Previously MD 0405.

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. Previously MD 0406.

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. Previously MD 0409.

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. Previously MD 0430.

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. Previously MD 0452.

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. Previously MD 0460.

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. Previously MD 0463.

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. Previously MD 0465.

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. Previously MD 0469.

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. Previously MD 0470.

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. Previously MD 0490.

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. Previously MD 0401.

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. Previously MD 0500.

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. Previously MD 0503.

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. Previously MD 0540.

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. Previously MD 0541.

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. Previously MD 0545.

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. Previously MD 0546.

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. Previously MD 0554.

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. Previously MD 0594.

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. Previously MD 0596.

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. Previously MD 0595.

EDTC 6999 Capstone Experience**3 Credits**

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

This course serves as the final summative assessment for educational technology students. Their final product should reflect their cumulative work from the program. Previously MD 0585.

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. Previously ECE 0403.

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. Previously ECE 0451.

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. Previously ECE 0423.

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. Previously ECE 0440.

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. Previously ECE 0431.

ECEG 5332 Biomedical Imaging**3 Credits****Prerequisite:** 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. Previously ECE 0432.

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. Previously ECE 0433.

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. Previously ECE 0435.

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. Previously ECE 0441.

ECEG 5348 Embedded Microcontrollers**3 Credits****Corequisite:** 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. Previously ECE 0448.

ECEG 5348L Embedded Microcontrollers Lab**1 Credit****Fee:** \$120 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. Previously ECE 0448L.

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. Previously ECE 0455.

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. Previously ECE 0461.

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:** 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. Previously ECE 0477.

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. Previously ECE 0478.

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. Previously ECE 0479.

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. Previously ECE 0495.

ECEG 5386 Fault Analysis in Power Systems 3 Credits
Prerequisite: 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. Previously ECE 0496.

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. Previously ECE 0405.

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. Previously ECE 0406.

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. Previously ECE 0411.

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. Previously ECE 0415.

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. Previously ECE 0420.

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. Previously ECE 0457.

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. Previously ECE 0460.

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. Previously ECE 0470.

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. Previously ECE 0480.

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. Previously ECE 0505.

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. Previously ECE 0508.

ECEG 5510L Product Design Lab**1 Credit****Fee:** \$120 Engineering Lab Fee**Prerequisite:** 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. Previously ECE 0510L.

ECEG 5520L System Design Lab**1 Credit****Fee:** \$120 Engineering Lab Fee**Corequisite:** 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. Previously ECE 0520L.

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. Previously ECE 0483.

ECEG 6971 Thesis I**3 Credits****Prerequisite:** 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. Previously ECE 0550.

ECEG 6972 Thesis II**3 Credits****Prerequisite:** 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. Previously ECE 0551.

Electrical Engineering (ELEG)

ELEG 2213 Introduction to Electric Circuits**3 Credits****Prerequisites:** 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. Previously EE 0213.

ELEG 2213L Electric Circuits Lab**1 Credit****Fee:** \$120 Engineering Lab Fee**Corequisite:** 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. Previously EE 0213L.

ELEG 2221 Frequency Domain Circuit Analysis**3 Credits****Prerequisites:** 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. Previously EE 0221.

ELEG 3231 Introduction to Electronics Circuits and Devices**3 Credits****Prerequisite:** 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. Previously EE 0231.

ELEG 3231L Electronics Circuits Lab**1 Credit****Fee:** \$120 Engineering Lab Fee**Corequisite:** 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. Previously EE 0231L.

ELEG 3301 Signal and Systems I**3 Credits****Prerequisites:** 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. Previously EE 0301.

ELEG 3348 Embedded Microcontrollers**3 Credits****Corequisite:** ELEG 3348L, CPSC 1131.**Prerequisite:** 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. Previously EE 0346.

ELEG 3348L Embedded Microcontrollers Lab**1 Credit****Fee:** \$120 Engineering Lab Fee**Corequisite:** 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. Previously EE 0346L.

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. Previously EE 0315.

ELEG 4331 Analog Electronics Design**3 Credits****Corequisite:** ELEG 4331L.**Prerequisites:** 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. Previously EE 0331.

ELEG 4331L Analog Electronics Lab**1 Credit****Fee:** \$120 Engineering Lab Fee**Corequisite:** 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. Previously EE 0331L.

ELEG 4335 Microelectronics**3 Credits****Prerequisite:** 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. Previously EE 0335.

ELEG 4355 Sensor Design and Applications**3 Credits****Prerequisite:** 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. Previously EE 0355.

ELEG 4360 Power Electronics**3 Credits****Prerequisites:** 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. Previously EE 0360.

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. Previously EE 0361.

ELEG 4377 Power Security and Reliability**3 Credits****Prerequisite:** 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. Previously EE 0377.

ELEG 4378 Electromagnetic Compatibility**3 Credits****Prerequisites:** 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. Previously EE 0378.

ELEG 4379 Communication Systems**3 Credits****Prerequisite:** 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. Previously EE 0379.

ELEG 4385 Power Generation and Distribution**3 Credits****Prerequisite:** 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. Previously EE 0385.

ELEG 4386 Fault Analysis in Power Systems**3 Credits****Prerequisite:** 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. Previously EE 0386.

Engineering (ENGR)

ENGR 1031 Fundamentals of Engineering

3 Credits

Attributes: MWID 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. Previously EG 0031.

ENGR 1060 Science, Technology, Engineering, and Mathematics of the Guitar

3 Credits

Fee: \$250 Engineering Lab Fee

This course looks at the design elements, manufacturing and assembly of solid-body electric guitars. Science, technology, engineering, and mathematics (STEM) concepts that relate directly to guitars are used to help students make an applied learning connection. Each student will construct their own electric guitar. Course will cover wood species and the environment, guitar headstock design features, chemistry of finishes, math applications in a guitar, physical science aspects of the guitar such as mechanical systems, concepts of sound waves, string tension, fretboard layout, intonation, and electronics. Studio-style class, lecture, and lab time combined throughout course. A lab fee applies to cover materials. Previously EG 0060.

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. Previously EG 0130.

ENGR 2145 Mathematical Analysis

3 Credits

Attributes: EVAP Environmental Studies: Applied Professional Skills, EVPE Environmental Studies Elective

Corequisite: ENGR 2145P.

Prerequisite: 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. Previously EG 0145.

ENGR 2145P Mathematical Analysis PLG

0 Credits

Peer learning group for ENGR 2145. Previously EG 0145P.

ENGR 3260 Robots

3 Credits

Prerequisite: 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. Previously EG 0260.

ENGR 4301 Feedback Control Systems

3 Credits

Prerequisites: 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. Previously EG 0300.

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. Previously EG 0303.

ENGR 4305 Design of Mechatronics Systems

3 Credits

Prerequisite: Senior standing.

This course covers development of mechatronics theory and applications to systems dependent upon the integration of mechanical, electrical and computer engineering. Students assemble hardware components to create a product design that fulfills a specified task in a mechatronics system. Students develop design skills in mechanisms, electrical devices, and software to create, test, and verify system function. Graduate equivalent: MEEG 5305. Previously EG 0305.

ENGR 4308 Autonomous Mobile Robots**3 Credits****Prerequisite:** 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 chassis if preferred. Graduate equivalent: ENGR 5308.

ENGR 4310 Industrial Quality Control**3 Credits****Prerequisite:** 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:** 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. Previously EG 0330.

ENGR 4360 Engineering Project Management**3 Credits****Attributes:** HASM Humanitarian Action Minor Skills/Method Course

This course concentrates on the general methodology of managing an engineering project from concept to operational use with emphasis on the functions, roles, and responsibilities of the project manager. Study of the basic principles and techniques related to controlling resources (i.e. people, materials, equipment, contractors, and cash flow) to complete a project on time and within budget while meeting the stated technical requirements. Through group and individual activities, including case study review and field work, students will learn to apply project management tools and techniques. The course will be taught by teaching each phase of project management as we complete the relevant aspects of the project in the field. There will be some classroom time for introducing concepts, and planning. However, the majority of time each day will be spent in the field executing the project, putting into practice the phases of project management. The course will prepare students with the ability to learn the necessary background information and hands-on technical skills, to be flexible and adaptable in difficult environments. These skills will be valuable in many areas, particularly in the planning and execution of humanitarian action and engineering in developing countries. Enrollment by permission only. Students must be able to study abroad. Previously EG 0360.

ENGR 4415 Engineering Applications of Numerical Methods**3 Credits****Prerequisite:** 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. Previously EG 0315.

ENGR 4961 Senior Design Project I**3 Credits**

Prerequisite: Completion of all non-elective program courses; completion of other program requirements to enable graduation within the year of completion of 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. Previously EG 0390.

ENGR 4962 Senior Design Project II**3 Credits****Prerequisite:** 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. Previously EG 0391.

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. Previously EG 0398.

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. Previously EG 0399.

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 chassis 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. Previously EG 0400.

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 disciplinary. The course prepares students to transfer this knowledge to their compositions across the curriculum and across contexts. Previously ENW 0100.

ENGL 1010 Introduction to Literary and Cultural Studies**3 Credits**

Attributes: DEIE Diversity, Equality, and Inclusion Elective, E_AF English Literature After 1800, MELT 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. Previously EN 0101.

ENGL 1020 Introduction to Contemporary World Literature**3 Credits**

Attributes: E_AF English Literature After 1800, MELT 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. Previously EN 0102.

ENGL 1030 Fairy Tales**3 Credits****Attributes:** E_AF English Literature After 1800, FREN French Course

Taught in English, MELT 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. The class leads to the production of a term paper involving research in primary sources and literary and folklore criticism. Previously EN 0103.

ENGL 1040 World Epics**3 Credits****Attributes:** E_BF English Literature Before 1800, MELT Magis Core

Exploration: Literature

A study of selected epic literature from various cultures and historical eras, starting with Gilgamesh from ancient Mesopotamia and including the Aeneid (Roman Empire), the Ramayana (India), the Táin Bó Cuailnge (Ireland), the Lusiads (Portugal), and Sundiata (Mali). 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**

Attributes: ASEN American Studies: Literature, ASGW American Studies: Gateway, BSAH Black Studies: Arts and Humanities, BSFC Black Studies Focus Course, DEIE Diversity, Equality, and Inclusion Elective, E_AF English Literature After 1800, LCEL LACS Minor: Elective, MELT 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). Previously EN 0105.

ENGL 1060 Masterpieces of Greek Literature in English Translation**3 Credits****Attributes:** E_BF English Literature Before 1800, MELT 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. Previously EN 0106.

ENGL 1070 Masterpieces of Roman Literature in English Translation**3 Credits****Attributes:** E_BF English Literature Before 1800, MELT Magis Core

Exploration: Literature

This course surveys major works of Roman literature of the republic and early empire, emphasizing the content of this literature as a key to understanding Roman civilization, and as meaningful in a contemporary context. Crosslisted with CLST 1070. Previously EN 0107.

ENGL 1080 Myth in Classical Literature**3 Credits****Attributes:** E_BF English Literature Before 1800, MELT 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. Previously EN 0108.

ENGL 1090 Greek Tragedy in English Translation**3 Credits****Attributes:** E_BF English Literature Before 1800, MELT 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. Previously EN 0109.

ENGL 1100 Greco-Roman Gender & Sexuality**3 Credits**

Attributes: MELT Magis Core Exploration: Literature, WSGF 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.

ENGL 1110 International Short Fiction**3 Credits****Attributes:** E_AF English Literature After 1800, MELT 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. Previously EN 0111.

ENGL 1120 19th-Century Russian Novel and World Literature**3 Credits****Attributes:** E_AF English Literature After 1800, MELT Magis Core

Exploration: Literature, RECS Russian, Eastern European, and Central Asian Studies

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. Previously EN 0112.

ENGL 1130 Literature of the Holocaust**3 Credits**

Attributes: E_AF English Literature After 1800, GMEL German Major or Minor Course, GMEN German Course Taught in English, HACA Humanitarian Action Minor Context Course, JST Judaic Studies Minor, MELT Magis Core Exploration: Literature, PJST 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. Previously EN 0113.

ENGL 1140 Caribbean Literature: History, Culture, and Identity**3 Credits**

Attributes: ASEN American Studies: Literature, ASGW American Studies: Gateway, BSFC Black Studies Focus Course, EDCG Educational Studies Cognate, E_AF English Literature After 1800, FREN French Course Taught in English, LCEL LACS Minor: Elective, MELT Magis Core Exploration: Literature, PJST 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. Previously EN 0114.

ENGL 1150 Dante**3 Credits**

Attributes: CAOT Catholic Studies: Non-Religious Studies, E_BF English Literature Before 1800, MELT 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. Previously EN 0115.

ENGL 1180 Modern China through Fiction and Film**3 Credits**

Attributes: ANMC Asian Studies Elective, DEIE Diversity, Equality, and Inclusion Elective, E_AF English Literature After 1800, MELT 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. Previously EN 0118.

ENGL 1200 American Women Playwrights**3 Credits**

Attributes: ASGW American Studies: Gateway, ENAM American Literature, E_AF English Literature After 1800, MELT Magis Core Exploration: Literature, WSGF Women, Gender, and Sexuality Studies: Gender Focused

This course traces the evolution of plays by women from the Revolutionary War to plays reflecting the 21st-century concerns of African American, Asian, American, and Latina playwrights. Plays are discussed in light of the social, political, and economic climates that produced them. Special emphasis is given to questions of sex, gender, race, ethnicity, and class, as we explore how American women, despite considerable obstacles, have developed their own theatrical voices. Our study is further informed by the work of feminist performance theorists. Crosslisted with THTR 1200. Previously EN 0120.

ENGL 1210 American Literature and the Environment**3 Credits**

Attributes: ASEN American Studies: Literature, ASGW American Studies: Gateway, ENAM American Literature, EVHU Environmental Studies: Humanities, EVME Environmental Studies Major Elective, EVPE Environmental Studies Elective, E_AF English Literature After 1800, MELT 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. Previously EN 0121.

ENGL 1220 The Frontier in American Literature**3 Credits**

Attributes: ASEN American Studies: Literature, ASGW American Studies: Gateway, ENAM American Literature, E_AF English Literature After 1800, MELT 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. Previously EN 0122.

ENGL 1230 Ethnic American Literature**3 Credits**

Attributes: ASEN American Studies: Literature, ASGW American Studies: Gateway, ENAM American Literature, E_AF English Literature After 1800, LCEL LACS Minor: Elective, MELT 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. Previously EN 0123.

ENGL 1235 Jewish Identity in Literature**3 Credits**

Attributes: E_AF English Literature After 1800, JST Judaic Studies Minor, MELT 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**

Attributes: ASEN American Studies: Literature, ASGW American Studies: Gateway, ENAM American Literature, E_AF English Literature After 1800, MELT 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. Previously EN 0124.

ENGL 1245 American Romanticism**3 Credits**

Attributes: ASEN American Studies: Literature, E_AF English Literature After 1800, MELT 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**

Attributes: ASEN American Studies: Literature, ASGW American Studies: Gateway, ENAM American Literature, E_AF English Literature After 1800, MELT 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. Previously EN 0125.

ENGL 1260 American Social Protest Literature**3 Credits**

Attributes: ASEN American Studies: Literature, ASGW American Studies: Gateway, DEIE Diversity, Equality, and Inclusion Elective, E_AF English Literature After 1800, MELT Magis Core Exploration: Literature, PJST 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. Previously EN 0126.

ENGL 1270 Romantic Love in Greek and Roman Literature**3 Credits**

Attributes: E_BF English Literature Before 1800, MELT 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. Previously EN 0127.

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**

Attributes: ASGW American Studies: Gateway, ENAM American Literature, E_AF English Literature After 1800, MELT 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. Previously EN 0129.

ENGL 1300 Literature by Women: Vision and Revision 3 Credits

Attributes: DEIE Diversity, Equality, and Inclusion Elective, ENAM American Literature, ENBR British Literature, E_AF English Literature After 1800, MELT Magis Core Exploration: Literature, WSGF 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. Previously EN 0130.

ENGL 1310 Contemporary Women Writers of Color 3 Credits

Attributes: ASEN American Studies: Literature, ASGW American Studies: Gateway, BSAH Black Studies: Arts and Humanities, BSCC Black Studies Component Course, ENAM American Literature, E_AF English Literature After 1800, MELT Magis Core Exploration: Literature, PJST Peace and Justice Studies, WSGF 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. Previously EN 0131.

ENGL 1320 20th Century Russian Fiction 3 Credits

Attributes: E_AF English Literature After 1800, MELT Magis Core Exploration: Literature, RECS Russian, Eastern European, and Central Asian Studies

In this comparative study, students read works by Russian and Soviet authors in tandem with texts by novelists from Eastern Europe, Asia, and the Americas. From the Silver Age, the course moves to post-Revolutionary fiction and versions of dystopia, considers exile, dislocation, relocation, and dual identity, then examines the effects of the Stalin years, and concludes with contemporary fiction of the post-Soviet era. The course sets the literature with its historical, political, and cultural contexts, incorporating material from the arts, as well. Previously EN 0132.

ENGL 1330 African American Literary Tradition 3 Credits

Attributes: ASGW American Studies: Gateway, BSFC Black Studies Focus Course, DEIE Diversity, Equality, and Inclusion Elective, ENAM American Literature, MELT 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. Previously EN 0133.

ENGL 1340 Democracy in Black and Indigenous Voices 3 Credits

Attributes: ASEN American Studies: Literature, ASGW American Studies: Gateway, MELT 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

Attributes: ASEN American Studies: Literature, E_AF English Literature After 1800, MELT 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. Previously EN 0135.

ENGL 1360 Book Histories and Futures: Literature in Times of Media Change 3 Credits

Attributes: E_AF English Literature After 1800, MELT 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. Previously EN 0136.

ENGL 1410 Imagining Shakespeare 3 Credits

Attributes: ENBR British Literature, E_BF English Literature Before 1800, MELT 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. Previously EN 0141.

ENGL 1410X Imagining Shakespeare**3 Credits**

Attributes: ENBR British Literature, E_BF English Literature Before 1800, MELT Magis Core Exploration: Literature, MSID Magis Core: Interdisciplinary

Corequisite: 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. Previously EN 0141X.

ENGL 1420 Myths and Legends of Ireland and Britain**3 Credits**

Attributes: ENBR British Literature, E_BF English Literature Before 1800, IRSE Irish Studies Elective, MELT 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 *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. Previously EN 0142.

ENGL 1420X Myths and Legends of Ireland and Britain**3 Credits**

Attributes: ENBR British Literature, E_BF English Literature Before 1800, IRSE Irish Studies Elective, MELT Magis Core Exploration: Literature, MSID Magis Core: Interdisciplinary

Corequisite: AHST 1121X.

This course studies the literature of early medieval cultures of Ireland and Great Britain, with special attention to Celtic culture. The course is divided into four parts, focusing on the Irish *Táin Bó Cuailnge*, the Welsh *Mabinogion*, the Latin Christian legends of Celtic saints, and the Old English epic *Beowulf*. Critical issues for discussion include: paganism and Christianity; conceptions of law, kinship, and nationhood; warrior culture and the idea of the hero; the status of art and poetry; orality and literacy; the natural and the supernatural; the construction of gender. 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**

Attributes: ENBR British Literature, EVHU Environmental Studies: Humanities, EVME Environmental Studies Major Elective, EVPE Environmental Studies Elective, E_BF English Literature Before 1800, MELT 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. Previously EN 0143.

ENGL 1450 King Arthur**3 Credits**

Attributes: E_BF English Literature Before 1800, MELT 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. Previously EN 0145.

ENGL 1610 Irish Literature**3 Credits**

Attributes: CAOT Catholic Studies: Non-Religious Studies, ENBR British Literature, E_AF English Literature After 1800, IRSE Irish Studies Elective, MELT 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. Previously EN 0161.

ENGL 1620 Irish Women Writers**3 Credits**

Attributes: CAOT Catholic Studies: Non-Religious Studies, ENBR British Literature, E_AF English Literature After 1800, IRSE Irish Studies Elective, MELT Magis Core Exploration: Literature, WSGF Women, Gender, and Sexuality Studies: Gender Focused

This course is a study of women writers both Anglo and Gaelic, from 19th-century fiction to contemporary poetry. The course focuses on the cross-cultural differences between these two groups, one privileged, the other marginalized, who perhaps share only a common language. Besides women's issues: education, emigration, marriage, motherhood, and equality, the themes include the Big House, colonization, the Literary Revival, folklore, the storyteller, and the roles of religion and politics in the society. Among the authors to be explored are Maria Edgeworth, Somerville and Ross, Elizabeth Bowen, Lady Gregory, Marina Carr, Peig Sayers, Edna O'Brien, Éilís Ní Dhuibhne, Eavan Boland, and Nuala Ní Dhomhnaill. Previously EN 0162.

ENGL 1630 Literature of Illness and Healing: Wounded Storytellers and Dedicated Healers**3 Credits**

Attributes: HSTE Health Studies: Traditions, Delivery, and Ethics, MELT 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. Previously EN 0163.

ENGL 1700 Writing the Self: Autobiography**3 Credits**

Attributes: ASGW American Studies: Gateway, ENAM American Literature, E_AF English Literature After 1800, MELT 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. Previously EN 0170.

ENGL 1710 Literature and the Visual Arts**3 Credits**

Attributes: ENAM American Literature, ENBR British Literature, E_AF English Literature After 1800, MELT Magis Core Exploration: Literature, WSGC 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. Previously EN 0171.

ENGL 1720 Literacy and Language**3 Credits**

Attributes: DEIE Diversity, Equality, and Inclusion Elective, EDCG Educational Studies Cognate, E_AF English Literature After 1800, MELT 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. Previously EN 0172.

ENGL 1730 You Are Here: Reading and Writing Place**3 Credits**

Attributes: MELT 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 1801 Creative Writing**3 Credits**

This course fosters creativity and critical acumen through extensive exercises in the composition of poetry and fiction. Previously ENW 0200.

ENGL 1802 Creative Writing: Poetry I**3 Credits**

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. Previously ENW 0202.

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. Previously ENW 0204.

ENGL 1805 Creative Writing: Fiction I**3 Credits**

This course for the student who seeks an intensive workshop approach to fiction composition emphasizes the short story and focuses on the analysis of student manuscripts. It includes some discussion of the work of significant authors (past and present) as a way of sharpening student awareness of technique and the literary marketplace for fiction. Previously ENW 0205.

ENGL 1806 Creative Writing: Nonfiction I**3 Credits**

Attributes: ENDE Digital Journalism 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. Previously ENW 0206.

ENGL 1832 Business Writing**3 Credits**

Attributes: BUEL Business Elective, ENDE Digital Journalism 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. Previously ENW 0332.

ENGL 1835 Technical Writing**3 Credits****Attributes:** ENDE Digital Journalism Elective, EVAP 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. Previously ENW 0335.

ENGL 1839 Grant and Proposal Writing**3 Credits****Attributes:** ENDE Digital Journalism Elective, EVAP Environmental Studies: Applied Professional Skills, HASM Humanitarian Action Minor Skills/Method Course, PAWR 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. Previously ENW 0339.

ENGL 1850 Professional Presentations: Writing and Delivery**3 Credits****Attributes:** ENDE 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. Previously ENW 0214.

ENGL 2001 Rhetorics that Matter: Personal, Public, Political**3 Credits****Prerequisite:** 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****Attributes:** ASEN American Studies: Literature, ASUP American Studies Upper Level, ENAM American Literature, E_AF English Literature After 1800**Prerequisite:** 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. Previously EN 0202.

ENGL 2003 English Epic**3 Credits****Attributes:** ENBR British Literature, E_BF English Literature Before 1800**Prerequisite:** 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: Beowulf from the Old English period, Sir Gawain and the Green Knight or Morte d'Arthur from the Middle English period, excerpts from Spenser's Faerie Queene from the Elizabethan period, Milton's Paradise Lost from the seventeenth century, Pope's Rape of the Lock from the eighteenth century. Critical attention will be paid throughout to changing and competing conceptions of England, nation, and epic. Previously EN 0203.

ENGL 2004 Literary Fairy Tale Tradition**3 Credits****Attributes:** E_AF English Literature After 1800**Prerequisite:** 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-century 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. Previously EN 0204.

ENGL 2011 Age of Chaucer**3 Credits****Attributes:** CAOT Catholic Studies: Non-Religious Studies, E_BF English Literature Before 1800**Prerequisite:** 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. Previously EN 0211.

ENGL 2013 Shakespeare I**3 Credits****Attributes:** ENBR British Literature, E_BF English Literature Before 1800**Prerequisite:** 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. Previously EN 0213.

ENGL 2014 Shakespeare II**3 Credits****Attributes:** ENBR British Literature, E_BF English Literature Before 1800**Prerequisite:** 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. Previously EN 0214.

ENGL 2015 Introduction to 18th Century British Literature**3 Credits****Attributes:** ENBR British Literature, E_BF English Literature Before 1800**Prerequisite:** 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. Previously EN 0215.

ENGL 2016 Victorian Poetry and Poetics**3 Credits****Attributes:** ENBR British Literature, E_AF English Literature After 1800, WSGC Women, Gender, and Sexuality Studies: Gender Component**Prerequisite:** 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. Previously EN 0216.

ENGL 2019 20th Century British Literature**3 Credits****Attributes:** ENBR British Literature, E_AF English Literature After 1800**Prerequisite:** 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. Previously EN 0218.

ENGL 2031 Early American Literature**3 Credits****Attributes:** ASEN American Studies: Literature, ENAM American Literature, E_BF English Literature Before 1800**Prerequisite:** 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. Previously EN 0231.

ENGL 2033 American Women Writers of the 19th Century**3 Credits****Attributes:** ASEN American Studies: Literature, ASUP American Studies Upper Level, ENAM American Literature, E_AF English Literature After 1800, WSGF Women, Gender, and Sexuality Studies: Gender Focused**Prerequisite:** 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. Previously EN 0234.

ENGL 2043 American Literature: 20th Century to the Present**3 Credits****Attributes:** ASUP American Studies Upper Level, ENAM American Literature, E_AF English Literature After 1800**Prerequisite:** One 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, Yeziarska, Hughes, Hurston, McNickle, Bellow, Okada, Kerouac, Rich, Plath, Welch, Gaines, Jen. Previously EN 0233.

ENGL 2045 Edith Wharton and Her Circle**3 Credits****Attributes:** ASEN American Studies: Literature, ENAM American Literature, E_AF English Literature After 1800, WSGF Women, Gender, and Sexuality Studies: Gender Focused**Prerequisite:** One 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. Previously EN 0235.

ENGL 2062 The Harlem Renaissance**3 Credits**

Attributes: ASEN American Studies: Literature, ASUP American Studies Upper Level, BSAH Black Studies: Arts and Humanities, BSFC Black Studies Focus Course, E_AF English Literature After 1800

Prerequisite: 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. Previously EN 0262.

ENGL 2063 African American Women Writers**3 Credits**

Attributes: ASEN American Studies: Literature, ASUP American Studies Upper Level, BSAH Black Studies: Arts and Humanities, BSFC Black Studies Focus Course, ENAM American Literature, E_AF English Literature After 1800, WSGF Women, Gender, and Sexuality Studies: Gender Focused

Prerequisite: 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. Previously EN 0263.

ENGL 2064 African American Fiction, 1940 to Present**3 Credits**

Attributes: ASUP American Studies Upper Level, BSAH Black Studies: Arts and Humanities, BSFC Black Studies Focus Course, ENAM American Literature, E_AF English Literature After 1800

Prerequisite: 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. Previously EN 0264.

ENGL 2075 Modern Women Writers**3 Credits**

Attributes: ENAM American Literature, ENBR British Literature, E_AF English Literature After 1800, WSGF Women, Gender, and Sexuality Studies: Gender Focused

Prerequisite: One 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. Previously EN 0275.

ENGL 2081 Native American Literature**3 Credits**

Attributes: ASEN American Studies: Literature, ASUP American Studies Upper Level, ENAM American Literature, E_AF English Literature After 1800

Prerequisite: 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. Previously EN 0281.

ENGL 2082 Latinx Literature**3 Credits**

Attributes: ASEN American Studies: Literature, ASUP American Studies Upper Level, ENAM American Literature, E_AF English Literature After 1800, LCEL LACS Minor: Elective

Prerequisite: 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. Previously EN 0282.

ENGL 2083 Asian Diasporas: Challenges to Citizenship 3 Credits

Attributes: ASEN American Studies: Literature, ASUP American Studies Upper Level, E_AF English Literature After 1800, HACA Humanitarian Action Minor Context Course, WSGF Women, Gender, and Sexuality Studies: Gender Focused

Prerequisite: 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. Previously EN 0283.

ENGL 2091 Gender and Sexuality in Film and Literature 3 Credits

Attributes: E_AF English Literature After 1800, WSGF Women, Gender, and Sexuality Studies: Gender Focused

Prerequisite: One 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. Previously EN 0291.

ENGL 2092 Contemporary Children's Literature 3 Credits

Attributes: ENAM American Literature, E_AF English Literature After 1800

Prerequisite: 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. Knoepfelmacher calls "the double perspective," that is, the ability to consider books written for children as both a child and an adult reader. You will read literary criticism on children's literature, as well as information on careers in children's books publishing. Previously EN 0292.

ENGL 2170 Themes in Creative Writing 3 Credits

Prerequisite: 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. Previously ENW 0207.

ENGL 2220 Teaching/Writing 3 Credits

Attributes: EDCG Educational Studies Cognate

Prerequisite: 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. Previously ENW 0311.

ENGL 2230 Teaching and Learning Grammar 3 Credits

Attributes: ENDE Digital Journalism Elective

Prerequisite: ENGL 1001.

This course is intended for students who may want to teach English Language Arts and who want to build (or build on) a strong foundation in both traditional and alternative models of English grammar and pedagogy. This course will help students develop the knowledge skills and competences to meet the NCTE/NCATE Standards for the Initial Preparation of Teachers of Secondary English Language Arts. A primary goal of the course is to help future teachers understand the study of grammar as more than learning a static list of rules, but rather as a set of overlapping inquiries into the origins, nature, uses, and consequences of language. Previously ENW 0317.

ENGL 2290 Writing and Responding 3 Credits

Prerequisite: 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. Previously ENW 0290.

ENGL 2310 Rhetorics of Resistance 3 Credits

Attributes: PJST 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****Attributes:** CAOT Catholic Studies: Non-Religious Studies, ENBR British Literature, E_BF English Literature Before 1800**Prerequisite:** 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. Previously EN 0311.

ENGL 3014 Renaissance Eros**3 Credits****Attributes:** E_BF English Literature Before 1800, WSGF Women, Gender, and Sexuality Studies: Gender Focused**Prerequisite:** 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. Previously EN 0314.

ENGL 3019 James Joyce**3 Credits****Attributes:** CAOT Catholic Studies: Non-Religious Studies, ENBR British Literature, E_AF English Literature After 1800, IRSE Irish Studies Elective**Prerequisite:** 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. Previously EN 0319.

ENGL 3021 Life and Print Culture in 18th Century London**3 Credits****Attributes:** ENBR British Literature, E_BF English Literature Before 1800**Prerequisite:** 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. Previously EN 0321.

ENGL 3031 Emily Dickinson and her Contemporaries**3 Credits****Attributes:** E_AF English Literature After 1800**Prerequisite:** 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****Attributes:** ASEN American Studies: Literature, ASUP American Studies Upper Level, ENAM American Literature, E_AF English Literature After 1800**Prerequisite:** 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. Previously EN 0332.

ENGL 3033 American Realism and Naturalism**3 Credits****Attributes:** ASEN American Studies: Literature, ASUP American Studies Upper Level, ENAM American Literature, E_AF English Literature After 1800**Prerequisite:** 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 Chesnut, Chopin, Crane, Davis, Dreiser, Du Bois, Eaton, Freeman, Gilman, Howells, James, Jewett, Norris, Twain, Washington, and Wharton. Previously EN 0333.

ENGL 3034 American Modernism**3 Credits****Attributes:** ASEN American Studies: Literature, ASUP American Studies Upper Level, ENAM American Literature, E_AF English Literature After 1800**Prerequisite:** 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, Yeats, Eliot, Hughes, Faulkner, Matthews. Topics to discuss include, but are not limited to, time, space, gender, nationality, race, and ethnicity. Previously EN 0334.

ENGL 3035 Contemporary American Literature and Culture**3 Credits****Attributes:** ASEN American Studies: Literature, ASUP American Studies Upper Level, ENAM American Literature, E_AF English Literature After 1800**Prerequisite:** 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. Previously EN 0335.

ENGL 3036 Seminar on Toni Morrison**3 Credits**

Attributes: ASEN American Studies: Literature, BSFC Black Studies Focus Course, ENAM American Literature, E_AF English Literature After 1800, PJST Peace and Justice Studies, WSGF Women, Gender, and Sexuality Studies: Gender Focused

Prerequisite: 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. Previously EN 0336.

ENGL 3051 Literary Theory**3 Credits**

Attributes: E_AF English Literature After 1800, MSID Magis Core: Interdisciplinary

Prerequisite: 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. Previously EN 0351.

ENGL 3052 Cultural Studies Theory**3 Credits**

Attributes: E_AF English Literature After 1800, MSID Magis Core: Interdisciplinary

Prerequisite: 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. Previously EN 0352.

ENGL 3072 All About Eve**3 Credits**

Attributes: CAOT Catholic Studies: Non-Religious Studies, ENBR British Literature, E_BF English Literature Before 1800, JST Judaic Studies Minor, WSGF Women, Gender, and Sexuality Studies: Gender Focused

Prerequisite: 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. Previously EN 0372.

ENGL 3073 Literature for Young Adults**3 Credits**

Attributes: EDCG Educational Studies Cognate, E_AF English Literature After 1800

Prerequisite: 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. Previously EN 0373.

ENGL 3074 The Woman Question: Early Feminism and 19th Century Transatlantic Literature**3 Credits**

Attributes: ASEN American Studies: Literature, ASUP American Studies Upper Level, ENAM American Literature, ENBR British Literature, E_AF English Literature After 1800, WSGF Women, Gender, and Sexuality Studies: Gender Focused

Prerequisite: One 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. Previously EN 0374.

ENGL 3075 Caribbean Women Writers**3 Credits**

Attributes: ASEN American Studies: Literature, ASUP American Studies Upper Level, BSAH Black Studies: Arts and Humanities, BSCL Black Studies Component Course, E_AF English Literature After 1800, LCEL LACS Minor: Elective, WSGF Women, Gender, and Sexuality Studies: Gender Focused

Prerequisite: 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. Previously EN 0375.

ENGL 3076 Global Women's Fiction**3 Credits**

Attributes: BSOC Black Studies Component Course, E_AF English Literature After 1800, WSGF Women, Gender, and Sexuality Studies: Gender Focused

Prerequisite: 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, Djébar, al-Shaykh, Aidoo, Truong, Valenzuela, Menéndez, Roy, Dangarambga, 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. Previously EN 0376.

ENGL 3077 Nonstop Metropolis: Literature and Culture in NYC**3 Credits**

Attributes: ASEN American Studies: Literature, ASUP American Studies Upper Level, E_AF English Literature After 1800, WSGF Women, Gender, and Sexuality Studies: Gender Focused

Prerequisite: One 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. Previously EN 0377.

ENGL 3078 People, Power, Politics: Postcolonial Adaptations**3 Credits**

Attributes: BSFC Black Studies Focus Course, E_AF English Literature After 1800, WSGF Women, Gender, and Sexuality Studies: Gender Focused

Prerequisite: 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, Édouard Glissant, Edward Said, and Gayatri Chakravorty Spivak.

ENGL 3120 Creative Writing: Poetry II**3 Credits**

Prerequisite: 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. Previously ENW 0302.

ENGL 3140 World of Publishing**3 Credits**

Attributes: ENDE Digital Journalism Elective

Prerequisite: 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*. Previously ENW 0340.

ENGL 3150 Creative Writing: Fiction II**3 Credits**

Attributes: MSID Magis Core: Interdisciplinary

Prerequisite: ENGL 1805.

This advanced workshop further develops skills begun in ENGL 1805 by looking closely at the craft of fiction. Students produce a substantial body of quality work such as several full-length short stories or substantial revisions, a novella, or several chapters of a novel. In addition to reading selections from published fiction writers, students read and comment extensively on their peers' work. Previously ENW 0305.

ENGL 3160 Creative Writing: Nonfiction II**3 Credits**

Prerequisite: 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. Previously ENW 0306.

ENGL 3161 Magazine Writing**3 Credits**

Attributes: ENDE Digital Journalism Elective, EPUB Editing and Publishing Minor Elective

Prerequisite: 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**

Attributes: ENDE Digital Journalism Elective

Prerequisite: 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. Previously ENW 0338.

ENGL 3236 Issues in Professional Writing**3 Credits****Attributes:** ENDE Digital Journalism Elective, ENPC Digital Journalism Production Component**Prerequisite:** 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. Previously ENW 0336.

ENGL 3237 Multimedia Writing**3 Credits****Attributes:** ENDE Digital Journalism Elective, ENPC Digital Journalism Production Component**Prerequisite:** 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. Previously ENW 0337.

ENGL 3310 Queer Rhetorics and Theories**3 Credits****Attributes:** ENDE Digital Journalism Elective, WSGF 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****Attributes:** WSGF Women, Gender, and Sexuality Studies: Gender Focused

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. Prerequisite: ENGL 1001

ENGL 3360 Literary Journalism**3 Credits****Attributes:** ENDE Digital Journalism Elective, SPEL Sports Media Elective**Prerequisite:** 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. Previously ENW 0330.

ENGL 4150 Advanced Portfolio Workshop**3 Credits****Prerequisite:** 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. Previously ENW 0399.

ENGL 4900 Special Topics (Shell)**3 Credits****Prerequisite:** 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. Previously ENW 0350.

ENGL 4952 Publishing Practicum**3 Credits****Attributes:** ENDE Digital Journalism Elective**Prerequisite:** 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. Previously ENW 0398.

ENGL 4960 Independent Writing Project**3 Credits****Attributes:** ENCP Digital Journalism Capstone Course**Prerequisite:** 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. Previously ENW 0347-0348.

ENGL 4970 Digital Publishing in the Humanities**3 Credits**

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****Attributes:** ENCP Digital Journalism Capstone Course**Prerequisite:** 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. Previously ENW 0345-0346.

ENGL 4990 Independent Study**1-4 Credits****ENGL 4999 Literature Capstone****3 Credits****Prerequisites:** 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. Previously EN 0390.

ENGL 5441 Fiction**6 Credits****Corequisite:** 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. Previously ENW 0444.

ENGL 5442 Non-Fiction**6 Credits****Corequisite:** 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. Previously ENW 0445.

ENGL 5443 Poetry**6 Credits****Corequisite:** 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. Previously ENW 0446.

ENGL 5444 Stage and Screen**6 Credits****Corequisite:** 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. Previously ENW 0450.

ENGL 5445 MFA Residency Full Term**0 Credits****Fee:** \$1265

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:** \$632.5

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. Previously ENW 0452.

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. Previously ENW 0447.

ENGL 5992 Independent Study: Non-Fiction**6 or 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. Previously ENW 0448.

ENGL 5993 Independent Study: Poetry**6 or 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. Previously ENW 0449.

ENGL 5994 Independent Study: Stage and Screen**6 or 9 Credits**

This distance-learning independent study comprises a semester's work with a faculty mentor for the MFA program, focusing on writing plays, screenplays, and cross-genre work as well as work in dramatic and narrative structure. A schedule and program of study is developed by both the student and assigned faculty mentor, including approximately 100 pages of creative work as well as a list of books and supplemental readings, and ten pages of analysis and discussion of craft during the semester. Previously ENW 0451.

Environmental Studies (EVST)

EVST 2004 Causes and Solutions of Environmental Problems:**Explanations from the Social Sciences****3 Credits**

Attributes: EVME Environmental Studies Major Elective, EVPE Environmental Studies Elective, EVSS Environmental Studies: Social Science, MSID 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**

Attributes: EVME Environmental Studies Major Elective, EVPE Environmental Studies Elective, EVSS Environmental Studies: Social Science, MSID 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. Previously EV 0303.

EVST 2900 Special Topics (Shell)**3 Credits****EVST 3980 Internship****1-3 Credits**

Attributes: EVPE Environmental Studies Elective

Prerequisites: 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. Previously EV 0298.

EVST 3990 Independent Study**1-3 Credits**

Attributes: EVPE Environmental Studies Elective

Prerequisites: 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 with 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. Previously EV 0299.

EVST 4001 Environment Workshop**3 Credits**

Attributes: EVCA Environmental Studies: Capstone, EVPE Environmental Studies Elective

Prerequisite: 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. Previously EV 0301.

Film, Television, and Media Arts (FTMA)

FTMA 1010 Introduction to Film Studies**3 Credits**

Attributes: ENPC Digital Journalism Production Component, GDFT 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. Previously FTM 0010.

FTMA 1011 Introduction to Film and Video Production 3 Credits

Attributes: ENPC Digital Journalism Production Component, SPEL Sports Media Elective

Fee: \$120 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. Previously FTM 0011.

FTMA 1101 American Cinema History 3 Credits

Attributes: ASGW American Studies: Gateway, GDFT 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. Previously FTM 0101.

FTMA 1102 American Television History 3 Credits

Attributes: ASGW American Studies: Gateway, GDFT 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. Previously FTM 0102.

FTMA 1103 Global Cinema 3 Credits

Attributes: ANMC Asian Studies Elective, DEIE Diversity, Equality, and Inclusion Elective, ENDE Digital Journalism Elective, GDFT Graphic Design: Film and Television, INEL 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. Previously FTM 0103.

FTMA 1104 Documentary Cinema 3 Credits

Attributes: GDFT 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. Previously FTM 0104.

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. Previously FTM 0120.

FTMA 1130 Film Editing and Media Construction 3 Credits

Fee: \$120 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. Previously FTM 0130.

FTMA 1137 Acting for the Camera 3 Credits

Prerequisite: 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. Previously FTM 0237.

FTMA 1150 Entertainment Technology 3 Credits

Attributes: MEVP Magis Core Exploration: VPA

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

Attributes: MEVP Magis Core Exploration: VPA

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 craftsmanship. 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****Attributes:** MEVP Magis Core Exploration: VPA

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****Attributes:** GDTA Graphic Design: Theatre, MEVP Magis Core Exploration: VPA

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. Previously TA 0155.

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. Previously FTM 0090.

FTMA 2131 Producing for Film and Television**3 Credits****Attributes:** SPEL 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****Attributes:** MEVP 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 twice. Previously FTM 0201.

FTMA 2204 African American Cinema**3 Credits****Attributes:** ASUP American Studies Upper Level, BSAH Black Studies: Arts and Humanities, BSFC Black Studies Focus Course, GDFT Graphic Design: Film and Television**Prerequisite:** 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. Previously FTM 0204.

FTMA 2206 American Film: Decades**3 Credits****Attributes:** ASGW American Studies: Gateway, GDFT Graphic Design: Film and Television**Prerequisite:** 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." Previously FTM 0206.

FTMA 2207 Film Genres**3 Credits****Attributes:** GDFT Graphic Design: Film and Television**Prerequisite:** FTMA 1010.

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. Previously FTM 0207.

FTMA 2208 Television Genres**3 Credits****Prerequisite:** 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. Previously FTM 0208.

FTMA 2209 Gender, Sexuality, and Cinema**3 Credits****Attributes:** WSGF Women, Gender, and Sexuality Studies: Gender Focused**Prerequisite:** 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. Previously FTM 0209.

FTMA 2220 Intermediate Screenwriting**3 Credits****Prerequisite:** 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. Previously FTM 0220.

FTMA 2230 Lighting and Cinematography**3 Credits****Prerequisite:** 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. Previously FTM 0230.

FTMA 2231 Documentary Film Production**3 Credits****Attributes:** SPEL Sports Media Elective**Fee:** \$120 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. Previously FTM 0231.

FTMA 2234 Directing for Film, TV, Media**3 Credits****Attributes:** SPEL Sports Media Elective**Prerequisite:** 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. Previously FTM 0234.

FTMA 2235 New Media Workshop**3 Credits****Attributes:** SPEL Sports Media Elective**Fee:** \$120 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. Previously FTM 0235.

FTMA 2236 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 2236. Previously FTM 0236.

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. Previously FTM 0205.

FTMA 2270 Hispanic Film**3 Credits****Attributes:** GDFT Graphic Design: Film and Television, LCEL LACS Minor: Elective, LCSC LACS Minor: Spanish Culture and Literature**Prerequisite:** SPAN 2220.

This course examines and analyzes film by Spanish and Latin-American directors (Buñuel, Saura, Littín, Sanjinés, etc.). Students initially study films as an independent genre using specific structural form as the means of analysis (close-up, soundtrack, frame, etc.). Students then begin to formulate interpretations that move between the formal, technical composition of films and the concrete socio-historic and cultural reality to which each film refers. Course activities include screening of films, discussion of articles that deal with literary theory and analysis of film, and writing short papers.

FTMA 2271 Italian Cinema**3 Credits****Attributes:** ISIF Italian Studies: Italy-Focused, ISIT Italian Studies: Italian

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. Previously FTM 0201B.

FTMA 2290 Italian American Cinema**3 Credits**

Attributes: ITEN Italian Course Taught in English, MWAC 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 Special Topics (Shell)**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 twice with different topics. Previously FTM 0210.

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. Previously FTM 0306.

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. Previously FTM 0305.

FTMA 4998 Capstone Seminar I**3 Credits**

Prerequisite: 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. Previously FTM 0310.

FTMA 4999 Capstone Seminar II**3 Credits**

Prerequisite: 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. Previously FTM 0311.

Finance (FNCE)

FNCE 2101 Introduction to Finance**3 Credits**

Fee: \$140 DSB Financial Technology Fee

Prerequisites: 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. Previously FI 0101.

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. Previously FI 0190.

FNCE 2980 Internship**1 Credit**

Prerequisite: 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 FI 0393-0394.

FNCE 3200 Global Capital Markets**3 Credits**

Attributes: IBEL International Business Elective, INEL International Studies Elective

Prerequisites: 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. Previously FI 0200.

FNCE 3210 Principles of Investment**3 Credits**

Prerequisites: 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. Previously FI 0210.

FNCE 3215 Financial Management**3 Credits**

Prerequisites: 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. Previously FI 0215.

FNCE 3235 Financial Technology**3 Credits****Prerequisites:** 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 Environmental, Social and Governance Investing**3 Credits**

Attributes: EVME Environmental Studies Major Elective, EVPE Environmental Studies Elective, EVSS Environmental Studies: Social Science

Prerequisite: Select one course from: ECON 1011; ECON 1012; FNCE 2101.

ESG investing presents the arguments for maximizing shareholder returns, alternative theories of the firm and various approaches for investors to 'do well while doing good'. Topics covered include impact investing, sustainable investing, shareholder activism, and religious values investing. Empirical performance of ESG funds will be reviewed, providing evidence to those who wish to participate in ESG investing as well as those looking to improve their competency in the area of these increasingly prominent strategies.

FNCE 3980 Internship**3 Credits**

Prerequisite: 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 FI 0391-0392.

FNCE 4240 International Financial Management**3 Credits**

Attributes: IBEL International Business Elective, INEL International Studies Elective

Prerequisite: 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. Previously FI 0240.

FNCE 4300 Seminar in Fixed Income**3 Credits**

Prerequisite: 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. Previously FI 0300.

FNCE 4305 Financial Trading and Strategic Simulations**3 Credits**

Attributes: BUEL Business Elective, FIEL Finance Elective

Prerequisites: FNCE 3210, FNCE 3215.

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. Previously FI 0305.

FNCE 4310 Portfolio Analysis**3 Credits**

Prerequisite: 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. Previously FI 0310.

FNCE 4315 Futures and Options Markets**3 Credits**

Prerequisite: 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. Previously FI 0315.

FNCE 4320 Financial Modeling**3 Credits**

Prerequisite: 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. Previously FI 0320.

FNCE 4325 Seminar in Real Estate**3 Credits**

Attributes: FIEL Finance Elective

Prerequisite: 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. Previously FI 0325.

FNCE 4330 Case Studies in Finance**3 Credits**

Prerequisites: 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. Previously FI 0330.

FNCE 4390 Seminar in Finance**3 Credits**

Attributes: FIEL Finance Elective

This course involves contemporary or specialized topics in finance. Seminars are open to finance majors only; prerequisites may vary. Previously FI 0397-0398.

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:** 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. Previously FI 0400.

FNCE 6500 Stakeholder Value**3 Credits****Prerequisite:** 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. Previously FI 0500.

FNCE 6530 Corporate Finance**3 Credits****Prerequisite:** 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. Previously FI 0530.

FNCE 6540 Investment Analysis**3 Credits****Prerequisite:** 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. Previously FI 0540.

FNCE 6545 Portfolio Management**3 Credits****Prerequisite:** 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. Previously FI 0545.

FNCE 6555 International Financial Management**3 Credits****Prerequisite:** 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. Previously FI 0555.

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. Previously FI 0560.

FNCE 6565 Derivative Securities**3 Credits****Prerequisite:** 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. Previously FI 0565.

FNCE 6570 Fixed Income Securities**3 Credits****Prerequisite:** 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. Previously FI 0570.

FNCE 6575 Capital Budgeting**3 Credits****Prerequisite:** 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. Previously FI 0575.

FNCE 6580 Financial Risk Management**3 Credits****Prerequisite:** 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. Previously FI 0580.

FNCE 6595 Research Methods in Finance**3 Credits****Prerequisite:** 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. Previously FI 0595.

FNCE 6900 Contemporary Topics Seminar**3 Credits****Prerequisites:** 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. Previously FI 0585.

FNCE 6990 Independent Research Seminar**3 Credits****Prerequisite:** 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. Previously FI 0597.

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:** 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:** 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****Attributes:** MWAC 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. Previously FR 0110.

FREN 1111 Elementary French II**3 Credits****Attributes:** MWAC Magis Core: Writing Across Curriculum**Prerequisite:** FREN 1110.

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. Previously FR 0111.

FREN 2210 Intermediate French I**3 Credits****Attributes:** MWAC Magis Core: Writing Across Curriculum**Prerequisite:** FREN 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. Previously FR 0210.

FREN 2211 Intermediate French II**3 Credits****Attributes:** LCEL LACS Minor: Elective, MWAC Magis Core: Writing Across Curriculum**Prerequisite:** FREN 2210.

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. Previously FR 0211.

FREN 2219 French Syntax and Expression**3 Credits****Attributes:** MWAC Magis Core: Writing Across Curriculum**Prerequisite:** FREN 2211.

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. Previously FR 0219.

FREN 2220 Topics in Language and Culture**3 Credits****Prerequisite:** FREN 2211.

This course improves proficiency in written and oral expression by focusing on topics in French language and culture. Students develop advanced writing and speaking skills while concentrating on grammar, style, and appropriateness. Weekly compositions, based primarily on the genres or topics studied allow students to identify and correct grammatical mistakes. Students present research in class in French. Films and various cultural artifacts (proverbs, songs, historical materials) familiarize students with idiomatic French. Previously FR 0220.

FREN 2230 Topics in French Classical Theater 3 Credits**Attributes:** MELT Magis Core Exploration: Literature

FREN 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:** 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. Previously FR 0251.

FREN 3252 Culture and Civilization of France and the Francophone World II 3 Credits**Prerequisite:** 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. Previously FR 0252.

FREN 3265 French Translation Workshop 3 Credits**Prerequisite:** 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. Previously FR 0265.

FREN 3267 French Commercial Culture 3 Credits**Prerequisite:** 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. Previously FR 0267.

FREN 3271 Contemporary French Press and Media 3 Credits**Prerequisite:** 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. Previously FR 0271.

FREN 3980 Internship 3 Credits**Prerequisite:** 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, 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. Previously FR 0377-0378.

FREN 3990 Independent Study 3 Credits**Prerequisite:** 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 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. Previously FR 0381-0382.

FREN 4301 Survey of Literature in French I 3 Credits**Attributes:** MELT Magis Core Exploration: Literature**Prerequisite:** 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. Previously FR 0301.

FREN 4302 Survey of Literature in French II 3 Credits**Attributes:** MELT Magis Core Exploration: Literature**Prerequisite:** 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. Previously FR 0302.

FREN 4305 French and Francophone Women Writers 3 Credits**Attributes:** MELT Magis Core Exploration: Literature, WSGF Women, Gender, and Sexuality Studies: Gender Focused**Prerequisite:** 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. Previously FR 0305.

FREN 4366 Film and Literature in French 3 Credits**Attributes:** MELT Magis Core Exploration: Literature**Prerequisite:** 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 works. Previously FR 0366.

FREN 4999 Capstone Seminar**3 Credits****Prerequisite:** Senior standing.

Majors in French participate in an interdisciplinary seminar in the spring of their senior year. The focus of this seminar varies according to the professor, but possible topics include European Film, The Grand Tour, Immigration in Europe, Capital Cities, Language Teaching and Technology, Europe and America. Students research their capstone papers in the target language and present the final work in English and French. The instructor may, in some cases, evaluate work in the target language in consultation with colleagues in that area of expertise in the department. Seminar is conducted in English. Previously FR 0399.

German (GRMN)

GRMN 1110 Elementary German I**3 Credits****Attributes:** MWAC 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. Previously GM 0110.

GRMN 1111 Elementary German II**3 Credits****Prerequisite:** 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. Previously GM 0111.

GRMN 2210 Intermediate German I**3 Credits****Prerequisite:** 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. Previously GM 0210.

GRMN 2211 Intermediate German II**3 Credits****Prerequisite:** 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. Previously GM 0211.

GRMN 2220 Topics in Language and Culture**3 Credits****Prerequisite:** 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. Previously GM 0220.

GRMN 2230 Business German**3 Credits****Prerequisite:** 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****Attributes:** MELT Magis Core Exploration: Literature

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****Attributes:** MELT Magis Core Exploration: Literature**Prerequisite:** 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. Previously GM 0241.

GRMN 3251 German Civilization and Culture I**3 Credits****Prerequisite:** 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. Previously GM 0251.

GRMN 3252 German Civilization and Culture II**3 Credits****Prerequisite:** 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. Previously GM 0252.

GRMN 3262 Survey of German Literature**3 Credits****Attributes:** MELT Magis Core Exploration: Literature

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. Previously GM 0262.

GRMN 3980 Internship**3 Credits**

The internship program gives students first-hand experience in the fields of translation, interpretation, cataloging, public relations, advertising, teaching, etc., in the language of their specialization. Department members, who agree to guide the endeavor, supervise student work. When required by a faculty supervisor, 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. Previously GM 0377-0378.

GRMN 3990 Independent Study**3 Credits**

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. Previously GM 0381-0382.

GRMN 4999 Capstone Seminar**3 Credits****Prerequisite:** 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. Previously GM 0399.

Graphic Design (GDSN)

GDSN 3201 Graphic Design I: Making Meaning**3 Credits****Prerequisite:** Completion of four preparatory classes in the Graphic Design minor.

In today's world, we are literally surrounded by graphic design, from billboards to soda cans, from Facebook pages to political ads. The graphic designer develops engaging material that communicates a pointed message and persuades an audience. This class focuses on the basic ingredients of graphic design: typography, image, and color. We further explore the combination of these elements into compositions, utilizing proximity, alignment, contrast and repetition. We engage in the complexity of the creative process, developing a strong designer's process, working both by hand and on the computer. Being critical of design is an essential element of designing. Therefore, we will analyze designs for their efficacy, as we lay the foundation for further study in graphic design. In addition to personal sketchbooks, we will use Adobe Photoshop, Illustrator, InDesign, and AfterEffects software. Previously GD 0201.

GDSN 3202 Graphic Design II: Clients and Collaboration**3 Credits****Prerequisite:** 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. Previously GD 0202.

Greek (GREK)

GREK 1111 Elementary Attic Greek**3 Credits**

Students study the grammar of Attic Greek. The course employs readings in easier authors to develop a practical reading knowledge of ancient Greek. Previously GR 0111.

GREK 2211 Intermediate Greek Readings I**3 Credits****Prerequisite:** GREK 1111.

This course includes intensive reading of selected authors of moderate difficulty in various genres, with extensive readings in translation, to give a survey of classical Greek literature. Previously GR 0210.

GREK 2212 Intermediate Greek Readings II**3 Credits****Prerequisite:** GREK 2211.

This course, a continuation of GREK 2211, includes intensive reading of selected authors of moderate difficulty in various genres, with extensive readings in translation, to give a survey of classical Greek literature. Previously GR 0211.

Health Studies (HLST)

HLST 1101 Introduction to Health Studies**3 Credits****Attributes:** MSID 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. Previously HS 0101.

HLST 3201 Health Communication for Healthcare Professionals 3 Credits**Attributes:** HSSS 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. Previously HS 0200.

HLST 3310 Global Health: A Social Justice Perspective 3 Credits**Attributes:** HSTE 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**Prerequisites:** 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. Previously HS 0399.

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: 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: 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

Attributes: JST Judaic Studies Minor

Designed for students with no prior experience with Hebrew or whose placement scores are in the range for this course level. This course, the first in a two-semester sequence, teaches the essentials of pronunciation, structure, and usage, allowing students to acquire the skills of listening, speaking, reading, and writing. Language cultures are explored through a variety of media. Students attend three classes per week and do mandatory online work determined by the instructor. Previously HE 0110.

HEBR 1111 Elementary Hebrew II

3 Credits

Attributes: JST Judaic Studies Minor

Prerequisite: 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. Previously HE 0111.

HEBR 2210 Intermediate Hebrew I

3 Credits

Attributes: JST Judaic Studies Minor

Prerequisite: 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. Previously HE 0210.

HEBR 2211 Intermediate Hebrew II

3 Credits

Attributes: JST Judaic Studies Minor

Prerequisite: 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. Previously HE 0211.

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. Previously HI 0100.

HIST 1102 China, Japan, and Europe

3 Credits

Attributes: ANMC Asian Studies Elective, DEIE Diversity, Equality, and Inclusion Elective, INEL 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. Previously HI 0102.

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. Previously HI 0103.

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." Previously HI 0104.

HIST 1105 Utopian Ideas and Practice Since 1500

3 Credits

In order to understand past events, we must have a grasp on how their participants thought and what they imagined. This is a history of past futures: what people imagined would, could, or should happen. All utopian texts carry a critique of the societies that their authors inhabited. Previously HI 0105.

HIST 1106 Imperialism and Colonialism

3 Credits

Attributes: INEL International Studies Elective, IWHU 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 truly global process produced through the interactions of the West and "the rest." The course focuses on the role of empires, imperialism, and colonialism in shaping world history. Previously HI 0106.

HIST 1107 The Silk Road: Crossroads to Civilization

3 Credits

Attributes: H_BF 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

Attributes: H_BF History Before 1750, H_EU European History
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

Attributes: GMEN German Course Taught in English, JST 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. Previously HI 0112.

HIST 1128 Renaissance England 3 Credits

Attributes: H_BF History Before 1750, H_EU European History
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. Previously HI 0228.

HIST 1128X Renaissance England 3 Credits

Attributes: H_BF History Before 1750, H_EU European History, MSID Magis Core: Interdisciplinary
Corequisite: 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. Previously HI 0228X.

HIST 1146 Women's History as U.S. History 3 Credits

Attributes: DEIE Diversity, Equality, and Inclusion Elective, PJST Peace and Justice Studies, WSGF 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. Previously HI 0146.

HIST 1188 Colonial Latin America, 1492-1800 3 Credits

Attributes: CAOT Catholic Studies: Non-Religious Studies, H_BF History Before 1750, H_NW Non-Western History, INEL International Studies Elective, LCEL LACS Minor: Elective, PJST 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 HI 0288, HIST 2288.

HIST 1189 Modern Latin America, 1800-Present 3 Credits

Attributes: H_AF History After 1750, H_NW Non-Western History, INEL International Studies Elective, LCEL LACS Minor: Elective
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 HI 0289, HIST 2289.

HIST 2201 History of Western Science 3 Credits

Attributes: H_AF History After 1750, H_EU European History
Prerequisite: 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. Previously HI 0201.

HIST 2202 Health and Healing in America, 1650-1980: History of Western Medicine 3 Credits

Attributes: ASUP American Studies Upper Level, HSTE Health Studies: Traditions, Delivery, and Ethics, H_AF History After 1750, H_US U.S. History
Prerequisite: 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. Previously HI 0202.

HIST 2203 European Society in the Middle Ages**3 Credits**

Attributes: CAOT Catholic Studies: Non-Religious Studies, H_BF History Before 1750, H_EU European History, ISIC Italian Studies: Italy Component, ITEN Italian Course Taught in English

Prerequisite: 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. Previously HI 0203.

HIST 2205 Anti-Semitism: Medieval to Modern**3 Credits**

Attributes: CAOT Catholic Studies: Non-Religious Studies, DEIE Diversity, Equality, and Inclusion Elective, H_BF History Before 1750, H_EU European History, JST Judaic Studies Minor

Prerequisite: 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. Previously HI 0205.

HIST 2210 The Third Reich**3 Credits**

Attributes: GMEL German Major or Minor Course, GMEN German Course Taught in English, H_AF History After 1750, H_EU European History, JST Judaic Studies Minor

Prerequisite: 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. Previously HI 0210.

HIST 2212 Modern Germany: From Reich to Republic**3 Credits**

Attributes: GMEL German Major or Minor Course, GMEN German Course Taught in English, H_AF History After 1750, H_EU European History, JST Judaic Studies Minor

Prerequisite: 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. Previously HI 0212.

HIST 2213 In the Wake of Destruction: Europe Since World War II**3 Credits**

Attributes: H_AF History After 1750, H_EU European History

Prerequisite: 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. Previously HI 0213.

HIST 2214 Modern Jewish History**3 Credits**

Attributes: H_AF History After 1750, H_EU European History, JST Judaic Studies Minor

Prerequisite: 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. Previously HI 0214.

HIST 2215 Ireland: Middle Ages to the Present**3 Credits**

Attributes: CAOT Catholic Studies: Non-Religious Studies, H_BF History Before 1750, H_EU European History, IRSE Irish Studies Elective

Prerequisite: 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. Previously HI 0215.

HIST 2216 Rise of the British Empire**3 Credits****Attributes:** H_BF History Before 1750, H_EU European History**Prerequisite:** 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. Previously HI 0216.

HIST 2217 Britain and Its Empire Since 1800**3 Credits****Attributes:** H_AF History After 1750, H_EU European History, INEL International Studies Elective**Prerequisite:** 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. Previously HI 0217.

HIST 2220 Ancient African Civilizations**3 Credits****Attributes:** BSCP Black Studies Capstone Course, BSFC Black Studies Focus Course, H_BF History Before 1750, H_NW Non-Western History, INEL International Studies Elective**Prerequisite:** 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. Previously HI 0220.

HIST 2221 Hellenistic World, 336-30 BCE**3 Credits****Attributes:** H_BF History Before 1750, H_EU European History, H_NW Non-Western History**Prerequisite:** 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. Previously HI 0221.

HIST 2222 The Roman Revolution**3 Credits****Attributes:** H_BF History Before 1750, H_EU European History, ISIF Italian Studies: Italy-Focused, ITEN Italian Course Taught in English**Prerequisite:** 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. Previously HI 0222.

HIST 2223 Roman World in Late Antiquity, 284-642 CE**3 Credits****Attributes:** H_BF History Before 1750, H_EU European History, ISIC Italian Studies: Italy Component, ITEN Italian Course Taught in English**Prerequisite:** 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. Previously HI 0223.

HIST 2224 Byzantine World**3 Credits****Attributes:** H_BF History Before 1750, H_EU European History**Prerequisite:** 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. Previously HI 0224.

HIST 2230 Early Modern France**3 Credits****Attributes:** FREN French Course Taught in English, H_BF History Before 1750, H_EU European History**Prerequisite:** 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. Previously HI 0230.

HIST 2235 Race in the Americas**3 Credits**

Attributes: BSFC Black Studies Focus Course, BSHI Black Studies: History, BSSS Black Studies: Social and Behavioral Sciences, H_AF History After 1750, H_NW Non-Western History, H_US U.S. History, LCEL LACS Minor: Elective

Prerequisite: 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**

Attributes: ASHI American Studies: History, ASUP American Studies Upper Level, EDCG Educational Studies Cognate, EDUS Education Minor U.S. History Course, H_AF History After 1750, H_US U.S. History, PJST Peace and Justice Studies

Prerequisite: 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. Previously HI 0237.

HIST 2239 20th Century United States**3 Credits**

Attributes: ASGW American Studies: Gateway, ASHI American Studies: History, ASUP American Studies Upper Level, BSCC Black Studies Component Course, BSHI Black Studies: History, EDCG Educational Studies Cognate, EDUS Education Minor U.S. History Course, H_AF History After 1750, H_US U.S. History

Prerequisite: 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. Previously HI 0239.

HIST 2240 The Personal Is Political: Women's Activism in the 1960s**3 Credits**

Attributes: ASHI American Studies: History, ASUP American Studies Upper Level, H_AF History After 1750, H_US U.S. History, PJST Peace and Justice Studies, WSGF Women, Gender, and Sexuality Studies: Gender Focused

Prerequisite: 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. Previously HI 0240.

HIST 2242 Immigration, Race, and Ethnicity in U.S. History**3 Credits**

Attributes: ASHI American Studies: History, ASUP American Studies Upper Level, BSCC Black Studies Component Course, BSHI Black Studies: History, H_AF History After 1750, H_US U.S. History, JST Judaic Studies Minor, MSJR Magis Core: Social Justice Race-Focused

Prerequisite: 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. Previously HI 0242.

HIST 2244 American Constitutional and Legal History II: 1900 to Present**3 Credits**

Attributes: ASHI American Studies: History, ASUP American Studies Upper Level, EDCG Educational Studies Cognate, EDUS Education Minor U.S. History Course, H_AF History After 1750, H_US U.S. History

Prerequisite: 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. Previously HI 0244.

HIST 2245 Feminism in the United States**3 Credits**

Attributes: ASHI American Studies: History, ASUP American Studies Upper Level, EDCG Educational Studies Cognate, EDUS Education Minor U.S. History Course, H_AF History After 1750, H_US U.S. History, PJST Peace and Justice Studies, WSGF Women, Gender, and Sexuality Studies: Gender Focused

Prerequisite: 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. Previously HI 0245.

HIST 2246 Women and Gender in U.S. History**3 Credits**

Attributes: ASGW American Studies: Gateway, ASHI American Studies: History, ASUP American Studies Upper Level, EDCG Educational Studies Cognate, EDUS Education Minor U.S. History Course, H_AF History After 1750, H_US U.S. History, SPEL Sports Media Elective, WSGF Women, Gender, and Sexuality Studies: Gender Focused

Prerequisite: One 1000-level history course.

This course surveys American women's history from the colonial era to the present, exploring the impact as well as the interdependence of gender, race, and class on experience. Although the term social history describes the course approach, it uses biography to illuminate key issues and enrich student perspectives. Through careful examination of primary and secondary sources, the course pursues two themes: the interplay of gender constructs through the myths and realities of women's lives, and the crucial role women played in transforming public and private space. The course views women as agents whose testimony and actions are vital to understanding our history. Previously HI 0246.

HIST 2247 Family and Sexuality in U.S. History**3 Credits**

Attributes: ASHI American Studies: History, ASUP American Studies Upper Level, H_AF History After 1750, H_US U.S. History, WSGF Women, Gender, and Sexuality Studies: Gender Focused

Prerequisite: 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. Previously HI 0247.

HIST 2251 The American Century: The United States and the World Since 1900**3 Credits**

Attributes: ASGW American Studies: Gateway, ASHI American Studies: History, ASUP American Studies Upper Level, EDCG Educational Studies Cognate, EDUS Education Minor U.S. History Course, H_AF History After 1750, H_US U.S. History, INEL International Studies Elective

Prerequisite: 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. Previously HI 0251.

HIST 2253 Early America to 1800**3 Credits**

Attributes: ASGW American Studies: Gateway, ASHI American Studies: History, ASUP American Studies Upper Level, EDCG Educational Studies Cognate, EDUS Education Minor U.S. History Course, H_BF History Before 1750, H_US U.S. History

Prerequisite: 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. Previously HI 0253.

HIST 2257 Who Built America? Working People in America**3 Credits**

Attributes: ASGW American Studies: Gateway, ASHI American Studies: History, ASUP American Studies Upper Level, EDCG Educational Studies Cognate, EDUS Education Minor U.S. History Course, H_AF History After 1750, H_US U.S. History, MSJ2 Magis Core: Social Justice II, PJST Peace and Justice Studies, WSGC Women, Gender, and Sexuality Studies: Gender Component

Prerequisite: 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. Previously HI 0257.

HIST 2262 African-American History, 1619 to 1865**3 Credits**

Attributes: ASHI American Studies: History, ASUP American Studies Upper Level, BSFC Black Studies Focus Course, BSHI Black Studies: History, EDCG Educational Studies Cognate, EDUS Education Minor U.S. History Course, H_BF History Before 1750, H_US U.S. History, PJST Peace and Justice Studies

Prerequisite: 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. Previously HI 0262.

HIST 2263 Inventing Themselves: African-American Women in U.S. History

3 Credits

Attributes: ASHI American Studies: History, ASUP American Studies Upper Level, BSFC Black Studies Focus Course, BSHI Black Studies: History, DEIE Diversity, Equality, and Inclusion Elective, EDCG Educational Studies Cognate, EDUS Education Minor U.S. History Course, H_AF History After 1750, H_US U.S. History, PJST Peace and Justice Studies, WSGF Women, Gender, and Sexuality Studies: Gender Focused

Prerequisite: 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. Previously HI 0263.

HIST 2264 African-American History, 1865 to Present**3 Credits**

Attributes: ASHI American Studies: History, ASUP American Studies Upper Level, BSFC Black Studies Focus Course, BSHI Black Studies: History, EDCG Educational Studies Cognate, EDUS Education Minor U.S. History Course, H_AF History After 1750, H_US U.S. History, PJST Peace and Justice Studies, SPEL Sports Media Elective

Prerequisite: 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. Previously HI 0264.

HIST 2265 History of the Indian Subcontinent: Colonialism, Nationalism, and Democracy, c.1857 to Today

3 Credits

Attributes: ANMC Asian Studies Elective, H_NW Non-Western History, INEL International Studies Elective, IWHU Islamic World Studies: Humanities, MWAC Magis Core: Writing Across Curriculum, PJST Peace and Justice Studies

Prerequisite: 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. Previously HI 0265.

HIST 2266 Gandhi and Non-Violent Revolution in the 20th Century

3 Credits

Attributes: ANMC Asian Studies Elective, MWAC Magis Core: Writing Across Curriculum, PJST Peace and Justice Studies

Prerequisite: 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. Previously HI 0266.

HIST 2270 History of Global Humanitarian Action**3 Credits**

Attributes: HAFD Humanitarian Action Foundation Course, H_AF History After 1750, H_EU European History, INEL International Studies Elective, PJST Peace and Justice Studies

Prerequisite: 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. Previously HI 0270.

HIST 2271 Introduction to Russian History, Culture, and Civilization**3 Credits**

Attributes: H_BF History Before 1750, H_EU European History, INEL International Studies Elective, MSID Magis Core: Interdisciplinary, RECS Russian, Eastern European, and Central Asian Studies

Prerequisite: 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. Previously HI 0271.

HIST 2272 Russia, 700-1700: History and Myth**3 Credits**

Attributes: H_BF History Before 1750, H_EU European History, INEL International Studies Elective, RECS Russian, Eastern European, and Central Asian Studies, RSHI Russian Studies Minor: History

Prerequisite: 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. Previously HI 0272.

HIST 2273 History and Culture of Central and Eastern Europe Since 1945**3 Credits**

Attributes: H_AF History After 1750, H_EU European History, INEL International Studies Elective, RECS Russian, Eastern European, and Central Asian Studies, RSHI Russian Studies Minor: History

Prerequisite: 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. Previously HI 0273.

HIST 2274 Historical Perspectives on Contemporary Global Crises**3 Credits**

Attributes: HACA Humanitarian Action Minor Context Course, H_AF History After 1750, H_NW Non-Western History, H_US U.S. History, INEL International Studies Elective, PJST Peace and Justice Studies

Prerequisite: 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. Previously HI 0274.

HIST 2275 Russia's Road to Revolution**3 Credits**

Attributes: H_BF History Before 1750, H_EU European History, INEL International Studies Elective, RECS Russian, Eastern European, and Central Asian Studies, RSHI Russian Studies Minor: History

Prerequisite: 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. Previously HI 0275.

HIST 2276 St. Petersburg in Russian History**3 Credits**

Attributes: H_AF History After 1750, H_EU European History, RECS Russian, Eastern European, and Central Asian Studies, RSHI Russian Studies Minor: History

Prerequisite: 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. Previously HI 0276.

HIST 2277 The Global Cold War**3 Credits**

Attributes: H_AF History After 1750, H_NW Non-Western History, RECS Russian, Eastern European, and Central Asian Studies

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**

Attributes: ANMC Asian Studies Elective, H_AF History After 1750, H_NW Non-Western History, INEL International Studies Elective

Prerequisite: 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 States, and Popular Culture and Sino-American Relations. The format of the course includes lectures, group discussions, debates and audio-visual presentations. Previously HI 0278.

HIST 2279 China from the Classical Time to the 1800s 3 Credits

Attributes: ANMC Asian Studies Elective, H_BF History Before 1750, H_NW Non-Western History, INEL International Studies Elective

Prerequisite: 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. Previously HI 0279.

HIST 2280 The West and the Middle East 3 Credits

Attributes: H_AF History After 1750, H_NW Non-Western History, INEL International Studies Elective, IWHU Islamic World Studies: Humanities

Prerequisite: 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. Previously HI 0280.

HIST 2281 Portrait of the Arabs 3 Credits

Attributes: H_BF History Before 1750, H_NW Non-Western History, INEL International Studies Elective, IWHU Islamic World Studies: Humanities

Prerequisite: 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. Previously HI 0281.

HIST 2284 20th Century Russia 3 Credits

Attributes: H_AF History After 1750, H_EU European History, INEL International Studies Elective, JST Judaic Studies Minor, RECS Russian, Eastern European, and Central Asian Studies, RSHI Russian Studies Minor: History

Prerequisite: 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. Previously HI 0284.

HIST 2285 Modern China: 1800 to Present 3 Credits

Attributes: ANMC Asian Studies Elective, H_AF History After 1750, H_NW Non-Western History, INEL International Studies Elective

Prerequisite: 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. Previously HI 0285.

HIST 2286 Rise of Modern Japan: 1800 to Present 3 Credits

Attributes: ANMC Asian Studies Elective, H_AF History After 1750, H_NW Non-Western History, INEL International Studies Elective

Prerequisite: 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. Previously HI 0286.

HIST 2290 The History of the US-Mexico Border 3 Credits

Attributes: H_AF History After 1750, H_US U.S. History, LCEL LACS Minor: Elective

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

Attributes: H_AF History After 1750, H_NW Non-Western History, INEL International Studies Elective, LCEL LACS Minor: Elective, LCSC LACS Minor: Spanish Culture and Literature, PJST Peace and Justice Studies

Prerequisite: 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. Previously HI 0297.

HIST 2298 Historical Geography**3 Credits****Attributes:** H_AF History After 1750, H_US U.S. History**Prerequisite:** 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. Previously HI 0298.

HIST 3303 What If? Alternate History and the Historical Imagination**3 Credits****Attributes:** H_AF History After 1750, H_EU European History, H_RE History: Research Paper**Prerequisite:** 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. Previously HI 0303.

HIST 3304 The Holocaust in History and Memory**3 Credits****Attributes:** GMEL German Major or Minor Course, GMEN German Course Taught in English, H_AF History After 1750, H_EU European History, H_RE History: Research Paper, JST Judaic Studies Minor, PJST Peace and Justice Studies**Prerequisite:** 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. Previously HI 0304.

HIST 3313 Godless: Atheism and Skeptical Thought in the West**3 Credits****Attributes:** H_BF History Before 1750, H_EU European History, H_RE History: Research Paper**Prerequisite:** 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. Previously HI 0313.

HIST 3315 Ireland Since the Famine**3 Credits****Attributes:** H_AF History After 1750, H_EU European History, H_RE History: Research Paper, IRSE Irish Studies Elective**Prerequisite:** 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. Previously HI 0315.

HIST 3323 England: Reformation to Revolution**3 Credits****Attributes:** H_BF History Before 1750, H_EU European History, H_RE History: Research Paper**Prerequisite:** 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. Previously HI 0323.

HIST 3325 Athenian Democracy and Empire**3 Credits****Attributes:** H_BF History Before 1750, H_EU European History**Prerequisite:** 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. Previously HI 0325.

HIST 3331 American Revolution and the New Nation**3 Credits****Attributes:** ASHI American Studies: History, ASUP American Studies Upper Level, H_AF History After 1750, H_RE History: Research Paper, H_US U.S. History**Prerequisite:** 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. Previously HI 0331.

HIST 3335 Civil War and Reconstruction 3 Credits

Attributes: ASUP American Studies Upper Level, H_AF History After 1750, H_RE History: Research Paper, H_US U.S. History

Prerequisite: 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. Previously HI 0335.

HIST 3346 Saints, Sinners, and Sisters: Women and Religion in American History 3 Credits

Attributes: H_AF History After 1750, H_RE History: Research Paper, H_US U.S. History, WSGF Women, Gender, and Sexuality Studies: Gender Focused

Prerequisite: 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. Previously HI 0346.

HIST 3349 The 1930s in America 3 Credits

Attributes: H_AF History After 1750, H_RE History: Research Paper, H_US U.S. History, MWID Magis Core: Writing in the Discipline

Prerequisite: 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. Previously HI 0349.

HIST 3350 Introduction to Public History 3 Credits

Attributes: H_AF History After 1750, H_US U.S. History

Prerequisite: 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. Previously HI 0256.

HIST 3356 History of the Cold War 3 Credits

Attributes: ASHI American Studies: History, ASUP American Studies Upper Level, H_AF History After 1750, H_EU European History, H_RE History: Research Paper, H_US U.S. History, RECS Russian, Eastern European, and Central Asian Studies, RSHI Russian Studies Minor: History

Prerequisite: 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. Previously HI 0356.

HIST 3366 Gender, Culture, and Representation: Women in China and Japan, 1600 to Present 3 Credits

Attributes: ANMC Asian Studies Elective, H_AF History After 1750, H_NW Non-Western History, H_RE History: Research Paper, INEL International Studies Elective, WSGF Women, Gender, and Sexuality Studies: Gender Focused

Prerequisite: 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. Previously HI 0366.

HIST 3367 East Asia in 20th-Century American Wars 3 Credits

Attributes: ANMC Asian Studies Elective, ASHI American Studies: History, ASUP American Studies Upper Level, H_AF History After 1750, H_NW Non-Western History, H_RE History: Research Paper

Prerequisite: 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. Previously HI 0367.

HIST 3368 Ideas in Action: Decolonization in World History 3 Credits

Attributes: ANMC Asian Studies Elective, H_NW Non-Western History, IWHU Islamic World Studies: Humanities, PJST Peace and Justice Studies

Prerequisite: 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. Previously HI 0368.

HIST 3371 Arab-Israeli Conflict 3 Credits

Attributes: H_AF History After 1750, H_NW Non-Western History, IWHU Islamic World Studies: Humanities, JST Judaic Studies Minor

Prerequisite: 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. Previously HI 0371.

HIST 3372 Terrorism in History 3 Credits

Attributes: H_AF History After 1750, H_EU European History, H_NW Non-Western History, PJST Peace and Justice Studies

Prerequisite: 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. Previously HI 0372.

HIST 3373 History of North Africa Since 1700 3 Credits

Attributes: H_NW Non-Western History, H_RE History: Research Paper, INEL International Studies Elective, IWHU Islamic World Studies: Humanities

Prerequisite: 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. Previously HI 0373.

HIST 3383 Food, Consumption, and Commodities in Latin America, 1500 to the Present: From Chocolate to Cocaine 3 Credits

Attributes: H_NW Non-Western History, INEL International Studies Elective, LCEL LACS Minor: Elective

Prerequisite: 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. Previously HI 0383.

HIST 3385 Comparative Russian Revolutions 3 Credits

Attributes: H_AF History After 1750, H_EU European History, H_RE History: Research Paper, RECS Russian, Eastern European, and Central Asian Studies, RSHI Russian Studies Minor: History

Prerequisite: 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. Previously HI 0385.

HIST 3391 The Meanings of History 3 Credits

Attributes: H_AF History After 1750, H_EU European History, H_NW Non-Western History, H_US U.S. History

Prerequisite: 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. Previously HI 0391.

HIST 3900 Special Topics (Shell) 3 Credits

Attributes: MSID Magis Core: Interdisciplinary

Prerequisites: 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. Previously HI 0397.

HIST 3980 Internship 1-3 Credits

Prerequisites: 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. Previously HI 0395.

HIST 3990 Independent Study**1-3 Credits****Attributes:** H_RE History: Research Paper**Prerequisites:** 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. Previously HI 0399.

Honors (HONR)

HONR 1101 Enduring Questions**3 Credits****Attributes:** MSID 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. Previously HR 0104.

HONR 2201 Emerging Questions**3 Credits****Attributes:** MSID Magis Core: Interdisciplinary**Prerequisite:** HONR 1101.

This course explores new questions emerging in changing modern contexts. It invites students to consider how new paradigms change human relations, how new discoveries change our understanding of the world, and how these changes are shaping our future. Previously HR 0204.

HONR 2202 Honors Seminar**3 Credits****Prerequisite:** 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. Previously HR 0202.

HONR 2990 Independent Special Topics**1-3 Credits**

This course offers an in-depth investigation of a significant topic or question. The professor(s) teaching the course choose(s) the topic. This course is generally limited to sophomores, with exceptions made as needed. Department permission required.

HONR 3301 Finding Answers**3 Credits****Attributes:** MSID Magis Core: Interdisciplinary**Prerequisite:** HONR 2201.

This team-taught course offers a survey of theories of knowledge, research methodologies, data collection practices, and analytical methods from disciplines across all undergraduate fields. It aims to arm students with a wide array of techniques for engaging in their own original research. Previously HR 0304.

HONR 4990 Special Topics Honors**1-3 Credits****Prerequisite:** HONR 2201.

This course offers an in-depth investigation of a significant topic or question, conducted in a seminar format. The professor(s) teaching the course choose(s) the topic. This course is generally limited to juniors, with exceptions made as needed. Previously HR 0398.

HONR 4997 Honors Thesis**1-3 Credits****HONR 4998 Student-Designed Honors 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-Designed Honors 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****Attributes:** HASM Humanitarian Action Minor Skills/Method Course

Students gain first-hand experience through placement with a relevant international organization, non-profit, media and business, or government agency focused on humanitarian crises and disaster response.

Typically, an internship requires 10 to 15 hours per week on site. Other requirements include an e-portfolio containing reflections about readings, meetings with internship coordinator and peers and a final reflection paper. An on-site supervisor and Humanitarian Action professor evaluate student work. Open to juniors and seniors only, by permission of the minor director. Requires an overall GPA of 3.0 or higher. Previously HA 0298.

HUAC 4999 Humanitarian Action Capstone**3 Credits****Prerequisites:** AETH 2272 or HIST 2270 or POLI 2472; completion of three Humanitarian Action electives; junior or senior standing.

This capstone course is a culminating experience for students minoring in Humanitarian Action. It provides students with the opportunity to engage with enduring questions that they have encountered throughout their coursework. Through a process of reflection and discernment facilitated during each class meeting, students will identify a research topic for a major paper that integrates the student's coursework, internship and/or extra-curricular experiences in the minor. Previously HA 0300.

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. Previously HU 0201.

HUMN 3210 Digital Publishing in the Humanities**3 Credits****Attributes:** EPUB Editing and Publishing Minor Elective, MSID Magis Core: Interdisciplinary, MWID 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. Previously HU 0301.

Information Systems and Operations Management (ISOM)

ISOM 6900 Contemporary Topics Seminar 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 science with spreadsheets, e-procurement, executive information systems, ethics, and other socioeconomic factors in the use of information technology. Previously IS 0585.

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. Previously IN 0405.

IDSN 5407 Color Design**3 Credits****Prerequisite:** 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. Previously IN 0407.

IDSN 5409 Basic Computer-Aided Design (CAD)**3 Credits****Prerequisite:** IDSN 5405.

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. Previously IN 0409.

IDSN 5410 Interior Design I**3 Credits****Prerequisite:** 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. Previously IN 0410.

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. Previously IN 0411.

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. Previously IN 0413.

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. Previously IN 0414.

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. Previously IN 0417.

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. Previously IN 0421.

IDSN 5422 Rendering**3 Credits****Prerequisite:** 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. Previously IN 0422.

IDSN 6509 3-D Architectural Computer-Aided Design (CAD) 3 Credits
Prerequisite: 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. Previously IN 0509.

IDSN 6511 Interior Design II 3 Credits
Prerequisite: 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. Previously IN 0511.

IDSN 6512 Interior Design III 3 Credits
Prerequisite: 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. Previously IN 0512.

IDSN 6513 Interior Design IV 3 Credits
Prerequisite: 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. Previously IN 0513.

IDSN 6514 Commercial Design 3 Credits
Prerequisite: 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. Previously IN 0514.

IDSN 6515 Lighting for Interiors 3 Credits
Prerequisite: 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. Previously IN 0515.

IDSN 6516 Kitchen and Bath Design 3 Credits
Prerequisite: 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. Previously IN 0516.

IDSN 6518 Interior Design V 3 Credits
Prerequisite: 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. Previously IN 0518.

IDSN 6519 Interior Design VI 3 Credits
Prerequisite: 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. Previously IN 0519.

IDSN 6520 Perspective Techniques 3 Credits
Prerequisite: 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. Previously IN 0520.

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. Previously IN 0521.

IDSN 6999 Capstone and Studio 3 Credits
Prerequisites: 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. Previously IN 0525.

International Studies (INTL)

INTL 1050 People, Places, and Global Issues 3 Credits

Attributes: BUEL Business Elective, DEIE Diversity, Equality, and Inclusion Elective, MSID Magis Core: Interdisciplinary, PJST 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 IL 0050 and INST 1050.

INTL 1051 Introduction to International Relations**3 Credits**

Attributes: HACA Humanitarian Action Minor Context Course, PJST Peace and Justice Studies, PMIR Politics Major: International Relations

This course introduces International Relations (IR) theories to students, providing concepts, frameworks and approaches that will help them make sense of global politics historically and today in a systematic and critical manner. The goal of the course is to familiarize students with these tools and to help them use them to understand and address challenges at a global scale, particularly different manifestations of violence, development and social injustice, including from war to economic, social, gendered, and political marginalization. Crosslisted with POLI 1104. Previously IL 0051 and INST 1051.

INTL 1052 Culture and the Political Economy**3 Credits**

Attributes: MWAC 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 IL 0052 and 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 IL 0053 and 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**

Attributes: BUEL Business Elective, HASM Humanitarian Action Minor Skills/Method Course, INEL International Studies Elective

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 IL 0150 and INST 2150.

INTL 2154 Contemporary Issues Affecting the Global Business Environment**3 Credits**

Attributes: IBEL International Business Elective, INEL International Studies Elective

Prerequisites: ECON 1011, ECON 1012; or INST 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 IL 0154, INBU 1054.

INTL 2201 Emerging Questions**3 Credits**

Attributes: HASM Humanitarian Action Minor Skills/Method Course, INEL International Studies Elective, MSID Magis Core: Interdisciplinary

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**

Attributes: HACA Humanitarian Action Minor Context Course, INEL International Studies Elective

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 IL 0197 and INST 2471.

INTL 2481 International Human Rights**3 Credits**

Attributes: HACA Humanitarian Action Minor Context Course, INEL International Studies Elective, PJST Peace and Justice Studies, PMIR 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 IL 0152 and INST 2481.

INTL 2980 International Business Internship**1 Credit****Attributes:** IBEL International Business Elective

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****Attributes:** IBEL International Business Elective, INEL International Studies Elective**Prerequisite:** 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 IL 0298 and INST 3980.

INTL 3990 Independent Study**1-3 Credits****Attributes:** IBEL International Business Elective, INEL 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 IL 0299 and INST 3990.

INTL 4303 Gender, War, and Peace**3 Credits****Attributes:** PMIR Politics Major: International Relations, WSGF Women, Gender, and Sexuality Studies: Gender Focused

This course examines the complexities and gendered impact of war on children, family and other social actors, drawing on a wide range of theories, concepts and case studies on violence, conflict escalation and peacebuilding. Part I examines the multifaceted forces of globalization, structural violence, and gender-based violence (GBV) that set up the gendered dynamics of war. Part II draws from this framework to understand the fluid contexts of gender and violence in war, including sexual violence. It looks at how people try to remain safe from armed conflict and marauding bands of rebels or soldiers, and the difficulties of sorting victim from perpetrator. Part III examines theories of social justice in the aftermath of war, and policies that can lead to improved security, safety, health, rehabilitation and reconstruction. Course requirements include exams and a research paper on the theory and policy implications of gender in war and its aftermath. Crosslisted with POLI 4303. Previously IL 0151 and INST 4303.

INTL 4999 Senior Capstone Seminar**3 Credits****Attributes:** MWID Magis Core: Writing in the Discipline**Prerequisites:** ECON 1011, ECON 1012, INST 1050, INST 1051, INST 1052.

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 IL 0300 and 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 IB 0580 and INBU 6000.

Irish Studies (IRST)

IRST 1111 Introduction to the Irish Language I**3 Credits****Attributes:** IRSE 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. Previously IRI 0110.

IRST 1112 Introduction to the Irish Language II**3 Credits****Attributes:** IRSE Irish Studies Elective**Prerequisite:** 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. Previously IRI 0111.

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. Previously IT 0110.

ITLN 1111 Elementary Italian II**3 Credits****Prerequisite:** 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. Previously IT 0111.

ITLN 2210 Intermediate Italian I**3 Credits****Attributes:** MWAC Magis Core: Writing Across Curriculum**Prerequisite:** 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. Previously IT 0210.

ITLN 2211 Intermediate Italian II**3 Credits****Attributes:** ISIT Italian Studies: Italian, MWAC Magis Core: Writing Across Curriculum**Prerequisite:** 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. Previously IT 0211.

ITLN 2262 Rome in the Cultural Imagination**3 Credits****Attributes:** ISIF Italian Studies: Italy-Focused, ITEN Italian Course Taught in English, MELT 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****Attributes:** ISIF Italian Studies: Italy-Focused, ISIT Italian Studies: Italian, ITEN Italian Course Taught in English, MEVP 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. Previously IT 0271.

ITLN 2289 Dante**3 Credits**

Attributes: CAOT Catholic Studies: Non-Religious Studies, E_BF English Literature Before 1800, ISIF Italian Studies: Italy-Focused, ISIT Italian Studies: Italian, ITEN Italian Course Taught in English, MELT Magis Core Exploration: Literature, MWAC 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 IT 0289, ITLN 3289.

ITLN 2290 Italian American Cinema**3 Credits**

Attributes: ASGW American Studies: Gateway, ISIF Italian Studies: Italy-Focused, ISIT Italian Studies: Italian, ITEN Italian Course Taught in English, MEVP Magis Core Exploration: VPA, MWAC 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 IT 0290, ITLN 3290.

ITLN 2291 Boccaccio's Decameron in Translation**3 Credits**

Attributes: ISIF Italian Studies: Italy-Focused, ISIT Italian Studies: Italian, ITEN Italian Course Taught in English, WSGF 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**

Attributes: ISIF Italian Studies: Italy-Focused, ISIT Italian Studies: Italian
Prerequisite: 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. Previously IT 0219.

ITLN 3220 Topics in Language and Culture**3 Credits****Attributes:** ISIF Italian Studies: Italy-Focused**Prerequisite:** 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. Previously IT 0220.

ITLN 3222 Made in Italy**3 Credits****Attributes:** ISIF Italian Studies: Italy-Focused, ISIT Italian Studies: Italian**Prerequisite:** 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. Previously IT 0222.

ITLN 3233 Creative Writing in Italian**3 Credits****Attributes:** ISIF Italian Studies: Italy-Focused, ISIT Italian Studies: Italian**Prerequisite:** 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. Previously IT 0233.

ITLN 3240 Language of Food in Italian Culture**3 Credits****Attributes:** ISIF Italian Studies: Italy-Focused, ISIT Italian Studies: Italian**Prerequisite:** 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. Previously IT 0240.

ITLN 3253 Contemporary Italian Culture**3 Credits****Attributes:** ISIF Italian Studies: Italy-Focused, ISIT Italian Studies: Italian**Prerequisite:** 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. Previously IT 0253.

ITLN 3255 The Novella**3 Credits****Attributes:** ISIF Italian Studies: Italy-Focused, MELT Magis Core

Exploration: Literature

Prerequisite: 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. Previously IT 0255.

ITLN 3257 Theatre in Italy: Comedy**3 Credits****Attributes:** ISIF Italian Studies: Italy-Focused, MELT Magis Core

Exploration: Literature, WSGF Women, Gender, and Sexuality Studies: Gender Focused

Prerequisite: 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, but also use these lively comedies to hone our reading, writing, and oral skills in Italian. To that end, we will watch clips of the plays, regularly perform scenes together in class, and even experiment with improvised "commedia dell'arte" scenarios. Previously IT 0257.

ITLN 3330 Redefining the Cosmos**3 Credits****Attributes:** ISIF Italian Studies: Italy-Focused**Prerequisite:** 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, IT 0330.

ITLN 3980 Internship**3 Credits****Attributes:** ISIF Italian Studies: Italy-Focused

The internship program gives students first-hand experience in the fields of translation, interpretation, cataloging, public relations, advertising and teaching in the language of their specialization. Department members, who agree to guide the endeavor, supervise student work. When required by a faculty supervisor, an evaluation of student interns may be required from the institution where students work. The student's work should demand no less than one full day per week, or its equivalent. Previously IT 0377-0378.

ITLN 3990 Independent Study**3 Credits**

Attributes: ISIF Italian Studies: Italy-Focused, ISIT Italian Studies: Italian Students undertake readings and studies in a specialized area of Italian, under the direction of a staff member. Designed to fill the special needs of specific students, this course is offered at the discretion of the department chair. Enrollment by permission only. Previously IT 0381-0382.

ITLN 4330 Redefining the Cosmos: Voyages**3 Credits**

Attributes: ISIF Italian Studies: Italy-Focused, MELT Magis Core Exploration: Literature

Prerequisite: 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 IT 0330.

ITLN 4999 Capstone Seminar**3 Credits**

Prerequisite: Senior standing.

Majors in Italian participate in an interdisciplinary seminar in the spring of their senior year. The focus of this seminar varies according to the professor, but possible topics include European Film, The Grand Tour, Immigration in Europe, Capital Cities, Language Teaching and Technology, Europe and America. Students research their capstone papers in the target language and present the final work in English and Italian. The instructor may, in some cases, evaluate work in the target language in consultation with colleagues in the area of expertise in the department. Seminar is conducted in English. Previously IT 0399.

Latin (LATN)

LATN 1111 Basic Latin**4 Credits**

The course presents an intensive study of Latin grammar. Students who complete this course continue in LATN 2211 and LATN 2212. Previously LA 0111.

LATN 2211 Readings in Latin Prose and Poetry I**3 Credits**

For students with a high school background or the equivalent in Latin, this course fills out that background through extensive readings in the principal authors and genres not read in high school. Previously LA 0210.

LATN 2212 Readings in Latin Prose and Poetry II**3 Credits**

Prerequisite: LATN 1111.

A continuation of LATN 2211, this course fills out the student's background in Latin through extensive readings in the principal authors and genres not read in high school. Previously LA 0211.

Latin American and Caribbean Studies (LCST)

LCST 3301 Justice and the Developing World**3 Credits**

Attributes: EDCG Educational Studies Cognate, HASM Humanitarian Action Minor Skills/Method Course, INEL International Studies Elective, LCEL LACS Minor: Elective, PJST 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. Previously LAC 0300.

LCST 3980 Internship**3 Credits**

Attributes: LCEL LACS Minor: Elective

Short-term internships in the field of Latin American and Caribbean Studies combine academic work with service that answers a community-identified need, and critical reflection. Such internships are offered in a Latin American or Caribbean country generally during the summer for a four- to six-week period. Enrollment by permission only. Previously LAC 0373.

LCST 3990 Independent Study**1-4 Credits**

Attributes: LCEL LACS Minor: Elective

Prerequisites: 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. Previously LAC 0399.

Liberal and Professional Studies (LBPS)

LBPS 4999 Senior Project**3 or 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. Previously GS 0399.

Management (MGMT)

MGMT 2101 Introduction to Management**3 Credits**

Prerequisite: Sophomore standing.

This course integrates, through theory and its application, the various topics, concepts, and modalities that make up the Management discipline. Its purpose is twofold: 1) to provide all business students with a strong grounding in how individuals and organizations function to support the strategic goals of business, and 2) to provide a foundation for further study by management majors and minors. The course introduces students to team/group work; the relationship of business to local, national, and global communities; the ethical implications of business decisions and models; organizational behavior; human resource management; leadership and organizational culture. Previously MG 0101.

MGMT 2980 Internship**1 Credit**

Prerequisite: 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. Previously MG 0393-0394.

MGMT 3235 Managing Human Resources**3 Credits****Prerequisite:** Junior standing.

This course introduces students to how effective management of people can contribute to firm performance and competitive advantage. The course explores human resource management activities: human resource planning, recruiting, selection, training, performance appraisal, compensation, and labor relations. Through extensive use of cases, simulations, and exercises, students actively learn to implement various human resource management strategies to better serve organizational and employee interests. Previously MG 0235.

MGMT 2400 Leading and Managing People**3 Credits****Attributes:** PANM Public Administration Nonprofit Management**Prerequisites:** 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. Previously MG 0240.

MGMT 3980 Internship**3 Credits****Prerequisite:** 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. Previously MG 0391-0392.

MGMT 4300 Business Strategies in the Global Environment**3 Credits****Attributes:** INEL International Studies Elective**Prerequisites:** 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. Previously MG 0300.

MGMT 4320 Diversity in the Workplace**3 Credits****Prerequisite:** 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. Previously MG 0320.

MGMT 4330 Career Planning**3 Credits****Prerequisites:** 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. Previously MG 0330.

MGMT 4333 Advanced Topics in Human Resource Management**3 Credits****Attributes:** MGHR Management: HR Elective**Prerequisites:** MGMT 2101, 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 4335 Entrepreneurship: Ideation and Validation**3 Credits****Attributes:** MGEN Management: Entrepreneurship Elective**Prerequisite:** 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. Previously MG 0335.

MGMT 4336 Social Entrepreneurship**3 Credits****Attributes:** MGEN Management: Entrepreneurship Elective, PANM Public Administration Nonprofit Management**Prerequisite:** 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. Previously MG 0336.

MGMT 4337 Entrepreneurship: Product Development and Commercialization**3 Credits****Attributes:** MGEN Management: Entrepreneurship Elective**Prerequisite:** 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. Previously MG 0337.

MGMT 4338 Managing a Family Business**3 Credits****Attributes:** MGEN Management: Entrepreneurship Elective**Prerequisite:** 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. Previously MG 0338.

MGMT 4339 Family Business in Italy**3 Credits****Prerequisite:** 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. Previously MG 0339.

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**

Attributes: HASM Humanitarian Action Minor Skills/Method Course, IBEL International Business Elective, INEL International Studies Elective

Prerequisite: 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. Previously MG 0350.

MGMT 4360 Negotiations and Dispute Resolution**3 Credits**

Attributes: EVAP Environmental Studies: Applied Professional Skills, INEL International Studies Elective

Prerequisite: 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. Previously MG 0360.

MGMT 4370 Managing Non-Profit Organizations**3 Credits**

Attributes: HASM Humanitarian Action Minor Skills/Method Course, INEL International Studies Elective, MGHR Management: HR Elective, PANM Public Administration Nonprofit Management

Prerequisite: 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. Previously MG 0370.

MGMT 4375 Sports Management**3 Credits**

Prerequisite: 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. Previously MG 0375.

MGMT 4380 Performance, Compensation, and Reward**3 Credits**

Attributes: MGEL Management: General Elective

Prerequisite: 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. Previously MG 0380.

MGMT 4385 Managing People for Global Business**3 Credits**

Attributes: IBEL International Business Elective, INEL International Studies Elective

Prerequisite: 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. Previously MG 0385.

MGMT 4390 Cross-Cultural Management**3 Credits****Attributes:** IBEL International Business Elective, INEL International Studies Elective**Prerequisite:** 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. Previously MG 0390.

MGMT 4900 Special Topics (Shell)**3 Credits****Attributes:** MGEL Management: General Elective**Prerequisite:** 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. Previously MG 0303.

MGMT 4990 Independent Study**3 or 6 Credits****Attributes:** MGEL Management: General Elective

This special program involving independent study and research under faculty guidance is also intended for students accepted in an approved internship. Open only to seniors majoring in management and approved by the department chair. Students must have a GPA of 2.5 or higher. Previously MG 0397-0398.

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. Previously MG 0400.

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. Previously MG 0410.

MGMT 6500 Leadership**3 Credits****Prerequisite:** 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. Previously MG 0500.

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. Previously MG 0509.

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. Previously MG 0503.

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. Previously MG 0504.

MGMT 6505 Human Resource Strategies: An Analytics Approach**3 Credits**

Human Resource Strategy is the linkage between human resource management (HRM) and firm strategy, contributing to competitive advantage of the firm. Human capital, which is knowledge, skills and abilities (KSA) of people, is one of the strategic assets of the firm. HRM entails recruitment and selection, training and development, total compensation and rewards, performance management, employee relations (such as diversity management, work life balance, legal and ethical compliance, safety issues) and other people related practices. In this course students will analyze how these practices can be aligned with the strategy of the firm and lead to greater firm performance. The students will take an analytics approach to generate for effectively managing employees so that business goals can be reached quickly and efficiently. The challenge of human resources analytics is to identify what data should be captured and how to use the data to model and predict capabilities so the organization gets an optimal return on investment (ROI) on its human capital. Previously MG 0505.

MGMT 6507 Negotiations and Dispute Resolution**3 Credits****Prerequisite:** 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. Previously MG 0507.

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. Previously MG 0508.

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. Previously MG 0515.

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. Previously MG 0525.

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. Previously MG 0530.

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. Previously MG 0531.

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. Previously MG 0540.

MGMT 6545 Law and Human Resources Management 3 Credits

Prerequisite: 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. Previously MG 0545.

MGMT 6555 Labor Relations 3 Credits

Prerequisite: 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. Previously MG 0555.

MGMT 6560 Career Planning and Development 3 Credits

Prerequisite: 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. Previously MG 0560.

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. Previously MG 0584.

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. Previously MG 0580.

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. Previously MOT 0407.

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. Previously MOT 0415.

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. Previously MOT 0420.

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. Previously MOT 0450.

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. Previously MOT 0460.

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. Previously MOT 0465.

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. Previously MOT 0470.

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. Previously MOT 0485.

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. Previously MOT 0500.

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. Previously MOT 0510.

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. Previously MOT 0525.

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. Previously MOT 0591.

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. Previously MOT 0592.

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. Previously MOT 0515.

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. Previously MK 0101.

MKTG 2212 Consumer Behavior**3 Credits****Prerequisites:** 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. Previously MK 0212.

MKTG 2221 Sales and Sales Management**3 Credits****Prerequisites:** 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. Previously MK 0221.

MKTG 2231 Advertising**3 Credits****Prerequisites:** 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. Previously MK 0231.

MKTG 2241 Digital Marketing**3 Credits****Prerequisites:** 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. Previously MK 0241.

MKTG 2251 Social Media Marketing**3 Credits****Prerequisites:** 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. Previously MK 0251.

MKTG 2261 Sports Marketing**3 Credits****Prerequisites:** 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. Previously MK 0261.

MKTG 2311 Marketing Research**3 Credits****Prerequisites:** 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. Previously MK 0311.

MKTG 2980 Internship**1 Credit****Prerequisite:** 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. Previously MK 0393-0394.

MKTG 3321 Marketing Channels**3 Credits****Prerequisites:** 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. Previously MK 0321.

MKTG 3322 Business-to-Business Marketing**3 Credits****Prerequisites:** 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. Previously MK 0322.

MKTG 3331 Media Strategy**3 Credits****Prerequisites:** 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. Previously MK 0331.

MKTG 3332 Public Relations Strategy**3 Credits****Prerequisites:** 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. Previously MK 0332.

MKTG 3341 Brand Management**3 Credits****Prerequisites:** MKTG 1101, junior standing.

This course focuses on one element in the marketing mix: the product. It examines such questions as how should a firm effectively and efficiently manage its current product line and develop potential new products. Consideration is also given to strategic planning. Previously MK 0341.

MKTG 3342 Contemporary Issues in Marketing**3 Credits****Prerequisites:** 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. Previously MK 0342.

MKTG 3980 Internship**3 Credits****Prerequisite:** 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. Previously MK 0391-0392.

MKTG 4312 Global Marketing Strategy**3 Credits****Attributes:** INEL International Studies Elective**Prerequisites:** 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 MK 0312, MKTG 3312.

MKTG 4990 Independent Study**3 or 6 Credits****Prerequisites:** 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. Previously MK 0397-0398.

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. Previously MK 0400.

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. Previously MK 0410.

MKTG 6500 Customer Value**3 Credits****Prerequisite:** 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. Previously MK 0500.

MKTG 6505A Introductory Storytelling in Marketing**1.5 Credits****Prerequisite:** 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:** 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:** 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. Previously MK 0510.

MKTG 6520 Research for Marketing Insights and Decisions**3 Credits****Prerequisite:** 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. Previously MK 0520.

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 6535 Strategic Brand Management**3 Credits****Prerequisite:** 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. Previously MK 0535.

MKTG 6540 Advertising Management**3 Credits****Prerequisite:** 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. Previously MK 0540.

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****Prerequisite:** 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. Previously MK 0565.

MKTG 6570 Digital Marketing and Analytics**3 Credits****Prerequisite:** MKTG 5400.

The aim of this course is to provide students with a strategic understanding of the scope and dynamics of digital marketing, as well as its impact on businesses and consumers. The course also imparts tactical knowledge regarding the current, industry-relevant, digital marketing tools and practices. In addition to learning how to plan and integrate marketing objectives across multiple digital platforms (including website, search, social media, email, and mobile), students will learn how to measure their impact through analytics. The course will also discuss ethical concerns surrounding digital consumer targeting, and provide students with best-practices for formulating a successful digital brand. Previously MK 0570.

MKTG 6575 Social Media Analytics and Strategy**3 Credits****Prerequisites:** MKTG 5400 and DATA 5400.

MKTG 6575 will focus on satisfying business' needs for social media managers and analysts that can effectively build, manage and analyze social media campaigns that are effective and generate results that provide them with a competitive advantage. Throughout this course, students will learn social media strategies and analytics methods such as social listening, social CRM, and social network analysis. While gaining hands-on experience, students will connect businesses with their target audiences across a wide range of social media platforms such as Facebook, YouTube, Instagram, TikTok, Twitter and Pinterest. Through their work with each of these platforms, they will develop content, create paid social campaigns, and interpret the analytical data generated by their efforts. By the end of this course, students will have gained industry relevant social media management and analytics certifications while using technology such as AI and Canva. Students will have learned strategies for turning data into actionable insights that can be used to improve social media marketing campaigns. Learning will be achieved through lectures, assessments, case studies with interactive discussions, certifications and an experiential learning project for a business.

MKTG 6580 Multivariate Analysis for Consumer Insights**3 Credits****Prerequisite:** 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. Previously MK 0580.

MKTG 6583 Pricing Strategies and Analytics**3 Credits**

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****Prerequisites:** 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. Previously MK 0590.

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. Previously MK 0585.

MKTG 6990 Independent Study**3 Credits****MKTG 6999A Capstone Project: Marketing Analytics and Strategy****3 Credits****Prerequisites:** Four courses from: MKTG 6510, MKTG 6520, 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 professional consulting advice 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. Previously MK 0599A.

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. Previously FT 0433.

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. Previously FT 0447.

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. Previously FT 0465.

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. Previously FT 0470.

MFTH 5471 Sexual and Gender Minority Mental Health**Treatment****2 Credits****Prerequisite:** 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. Previously FT 0471.

MFTH 5480 Transgender and Gender Expansive Affirming Care**1.5 Credits****Prerequisite:** 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: 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. Previously FT 0525.

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. Previously FT 0550.

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: 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. Previously FT 0499.

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. Previously FT 0425.

MFTH 6450 Techniques of Narrative and Solution-Focused Therapy 3 Credits

Prerequisite: 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. Previously FT 0450.

MFTH 6552 Intervention in Structural and Strategic Family Therapy 3 Credits

Prerequisite: 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. Previously FT 0552.

MFTH 6553 Family Therapy Pre-Practicum 3 Credits

Prerequisites: MFTH 5550, MFTH 6552.

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. Previously FT 0553.

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. Previously FT 0555.

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. Previously FT 0556.

MFTH 6561 Advanced Interventions in Family Therapy 3 Credits

Prerequisite: MFTH 6951.

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. Previously FT 0561.

MFTH 6565 Ethical, Legal, and Professional Issues in Family Therapy 3 Credits

Prerequisite: MFTH 5550.

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. Previously FT 0565.

MFTH 6566 Substance Abuse and the Family**3 Credits****Prerequisite:** 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. Previously FT 0566.

MFTH 6567 Couples Therapy**3 Credits****Prerequisite:** 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. Previously FT 0567.

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. Previously FT 0569.

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. Previously FT 0570.

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. Previously FT 0568.

MFTH 6951 Practicum in Family Therapy I**3 Credits****Prerequisites:** 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. Previously FT 0559.

MFTH 6952 Practicum in Family Therapy II**3 Credits****Prerequisite:** MFTH 6951.

This course is a continuation of MFTH 6951. Previously FT 0560.

MFTH 6971 Thesis**3 Credits****Prerequisite:** 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. Previously FT 0598.

MFTH 6981 Internship in Family Therapy I**3 Credits****Prerequisite:** 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. Previously FT 0580.

MFTH 6982 Internship in Family Therapy II**3 Credits****Prerequisite:** 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. Previously FT 0581.

MFTH 6983 Continuing Internship in Family Therapy**1 Credit****Prerequisite:** 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. Previously FT 0582.

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. Previously FT 0595.

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. Previously FT 0098.

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. Previously FT 0099.

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. Previously MA 0011.

MATH 1015 Mathematics: An Exploration**3 Credits**

This course introduces various ideas in mathematics at an elementary level. It is meant for the student who would like to fulfill a core mathematics requirement, but who does not need to take mathematics for their major. Topics will vary, depending upon the instructor, but in general will include topics of both historical and current interest. Previously MA 0015.

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. Previously MA 0016.

MATH 1017 Elementary Probability and Statistics**3 Credits**

This introduction to the theory of statistics includes measures of central tendency, variance, Chebyshev's theorem, probability theory, binomial distribution, normal distribution, the central limit theorem, and estimating population means for large samples. Students who have received credit for any higher-level mathematics course may not take this course for credit without the permission of the department chair. Previously MA 0017.

MATH 1121 Applied Calculus I**3 Credits**

Prerequisite: Precalculus.

Topics in this course include: foundations of the calculus, differentiation of algebraic, exponential and logarithmic functions, extrema and curve sketching, applications of derivatives, antiderivatives, the Fundamental Theorem of Calculus, and integration of algebraic functions. A graphing calculator and Wolfram Alpha are among the technologies that may be used. Students who received credit for MATH 1141 or MATH 1171 may not take this course for credit. Previously MA 0119.

MATH 1122 Applied Calculus II**3 Credits**

Prerequisite: MATH 1121.

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. Previously MA 0120.

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: 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. Previously MA 0145.

MATH 1142 Calculus II for Chemistry, Engineering, and Physics Majors**4 Credits**

Prerequisite: 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. Previously MA 0146.

MATH 1171 Calculus I**4 Credits**

Prerequisite: Precalculus.

This is our most rigorous first-year calculus sequence. However, students are not expected to have had calculus before taking this course. Topics include functions; limits (including the epsilon-delta definition), continuity, and derivatives; trigonometric functions and their derivatives; applications; relative and absolute extrema, and curve sketching; related rates; Rolle's Theorem and the mean value theorem; antiderivatives, definite integrals and area, and the fundamental theorem of calculus. It is recommended that students not enroll in 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. Previously MA 0171.

MATH 1172 Calculus II**4 Credits**

Prerequisite: 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. Previously MA 0172.

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. Previously MA 0211.

MATH 2217 Statistics I 3 Credits**Attributes:** EVAP Environmental Studies: Applied Professional Skills**Prerequisite:** 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. Previously MA 0217.

MATH 2223 Applied Calculus III 3 Credits**Prerequisite:** 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. Previously MA 0221.

MATH 2231 Discrete Mathematics 3 Credits

Topics in this course include logic, sets, functions, equivalence relations and partitions, mathematical induction, and countability. Previously MA 0231.

MATH 2235 Linear Algebra 3 Credits**Prerequisite:** 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. Previously MA 0235.

MATH 2243 Calculus III for Chemistry, Engineering, and Physics Majors 4 Credits**Prerequisite:** 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. Previously MA 0245.

MATH 2251 Ordinary Differential Equations 3 Credits**Prerequisite:** 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. Previously MA 0251.

MATH 2253 Applied Probability Theory 3 Credits**Prerequisites:** 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:** 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. Previously MA 0273.

MATH 3301 Topics in Discrete Mathematics 3 Credits**Prerequisite:** 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). Previously MA 0300.

MATH 3317 Applied Statistics I 3 Credits**Prerequisite:** 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. Previously MA 0317.

MATH 3331 Applied Mathematics 3 Credits**Prerequisites:** MATH 2235, 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. Previously MA 0331.

MATH 3332 Partial Differential Equations 3 Credits**Prerequisites:** 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. Previously MA 0332.

MATH 3336 Abstract Algebra 3 Credits Prerequisites: MATH 2231, MATH 2235. Students will study group theory, rings and ideals, integral domains, and fields. Previously MA 0334.	MATH 3361 Topics in Algebra 3 Credits Prerequisite: 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. Previously MA 0361.
MATH 3337 Number Theory 3 Credits Attributes: EDCG Educational Studies Cognate 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 one-function, and Diophantine equations. Students consider the influence number theory has had on the development of algebra and the interplay between the two. Previously MA 0337.	MATH 3371 Real Analysis 3 Credits Prerequisites: MATH 2231, MATH 2273. This course examines the set of real numbers as a complete, ordered, archimedean field; \mathbb{R} as a linear vector space equipped with inner product and norm; metrics, particularly Euclidean, on \mathbb{R} , topological concepts: continuity, connectedness, and compactness; the intermediate value, extreme value, monotone convergence, Bolzano/Weierstrass and Heine/Borel theorems; convergence and uniform convergence of sequences of continuous functions; differentiation. Previously MA 0371.
MATH 3342 Theory of Computation 3 Credits Prerequisite: 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. Previously MA 0342.	MATH 3373 Complex Analysis 3 Credits Prerequisites: 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. Previously MA 0373.
MATH 3345 Functional Programming 3 Credits Prerequisites: 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 3377 Numerical Analysis 3 Credits Prerequisites: MATH 1172, MATH 2235, 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. Previously MA 0377.
MATH 3351 Probability Theory 3 Credits Attributes: EDCG Educational Studies Cognate Prerequisites: 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. Previously MA 0351.	MATH 3383 Modern Geometry 3 Credits Attributes: EDCG Educational Studies Cognate Prerequisites: MATH 2231, MATH 2235. Topics in this course include: foundation for plane geometries; theorems of Menelaus, Ceva, Desargues, Pascal, Brianchon, and Feuerbach; inversion and reciprocation transformations; projective, Riemannian and Lobachevskian geometries; and Poincaré models. Previously MA 0383.
MATH 3352 Mathematical Statistics 3 Credits Attributes: EDCG Educational Studies Cognate Prerequisite: 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. Previously MA 0352.	MATH 3385 Point Set Topology 3 Credits Prerequisite: 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. Previously MA 0385.
MATH 3354 Actuarial Problem Solving 1 Credit Prerequisite: MATH 3352 (may be taken concurrently). 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. Previously MA 0354.	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. Previously MA 0390.

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. Previously MA 0391.

MATH 4900 Special Topics (Shell)**3 Credits**

Prerequisites: 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. Previously MA 0395.

MATH 4980 Internship**1-3 Credits**

Prerequisite: Senior standing.

The internship program provides senior mathematics majors with opportunities to gain practical, career-related experience in a variety of supervised field settings. Student interns select from a variety of placements, especially those requiring applications of mathematics, numerical methods, and statistics. Interns spend a minimum of 10 hours per week working at the placement site and complete the required academic component specified by their faculty advisor. Internship credits vary; interns may register for a summer session and/or one or two semesters for an overall maximum of six credits. In addition, an internship must satisfy the requirements outlined in the University Internship Policy, which is available from the Career Center. An internship may not take the place of a mathematics elective. Enrollment by permission only. Previously MA 0397-0398.

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. Previously MA 0399.

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. Previously MA 0401.

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. Previously MA 0417.

MATH 5418 Applied Statistics II**3 Credits**

Prerequisite: 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. Previously MA 0418.

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. Previously MA 0435.

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 homeomorphisms; ring of polynomials, divisibility algorithm, irreducible elements and unique factorization properties, roots and irreducibility; quotients rings, prime and maximal ideals; Euclidian domains, principal ideals domains, factorization domains, field of quotients of an integral domain; introduction to group theory. Students should have a solid background in theoretical mathematics and linear algebra at the undergraduate level. This is a proof-intensive course. Previously MA 0436.

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. Previously MA 0451.

MATH 5452 Statistics Theory**3 Credits****Prerequisite:** 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. Previously MA 0452.

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. Previously MA 0471.

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. Previously MA 0472.

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. Previously MA 0495.

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. Previously MA 0510.

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 matrix theory or linear algebra, which is well-covered by MATH 5401. Previously MA 0531.

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 matrix theory or linear algebra, which is well-covered by MATH 5401. Previously MA 0532.

MATH 6535 Advanced Abstract Algebra**3 Credits****Prerequisite:** 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. Previously MA 0535.

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. Previously MA 0537.

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. Previously MA 0550.

MATH 6565 Use of Technology in the Classroom**3 Credits**

Designed for teachers, this course surveys various computer software mathematics packages suitable for use in the classroom, such as Maple, Mathematica, MATLAB, SKETCHPAD, and ISETL. The course includes a description of the programs and discusses how they can be integrated into a classroom setting. Students should have a solid background in undergraduate mathematics through second-semester calculus. Previously MA 0565.

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. Previously MA 0577.

MATH 6578 Math of Financial Derivatives**3 Credits****Prerequisite:** 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. Previously MA 0578.

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. Previously MA 0583.

MATH 6585 Topology**3 Credits****Prerequisite:** 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. Previously MA 0585.

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. Previously MA 0599.

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. Previously MA 0590.

Mechanical Engineering (MEEG)

MEEG 2201 Engineering Statics**3 Credits****Prerequisite:** 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. Previously ME 0201.

MEEG 2203 Kinematics and Dynamics**3 Credits****Prerequisites:** 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. Previously ME 0203.

MEEG 2206L Mechanics Lab**1 Credit****Fee:** \$120 Engineering Lab Fee**Corequisite:** 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. Previously ME 0206L.

MEEG 2207 Materials Science**3 Credits**

Attributes: EVME Environmental Studies Major Elective, EVNS Environmental Studies: Natural Science, EVPE Environmental Studies Elective

Corequisite: 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. Previously ME 0207.

MEEG 2307L Dynamics Systems Lab**1 Credit****Fee:** \$120 Engineering Lab Fee**Corequisites:** 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. Previously ME 0307L.

MEEG 3241 Principles of Thermodynamics**3 Credits****Prerequisite:** 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. Previously ME 0241.

MEEG 3308 Strength of Materials**3 Credits****Prerequisites:** 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. Previously ME 0308.

MEEG 3311 Machine Design**3 Credits****Prerequisite:** 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). Previously ME 0311.

MEEG 3318 Finite Element Analysis**3 Credits****Prerequisites:** ENGR 2130, MATH 3332, MEEG 3308.

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. Previously ME 0318.

MEEG 3342 Applications of Thermodynamics**3 Credits****Prerequisite:** 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.

Previously ME 0342.

MEEG 3347 Fluid Mechanics**3 Credits****Prerequisites:** MATH 3332, 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. Previously ME 0347.

MEEG 3348L Thermal and Fluids Lab**1 Credit****Fee:** \$120 Engineering Lab Fee**Corequisites:** 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. Previously ME 0348L.

MEEG 4310L Product Manufacturing Lab**1 Credit****Fee:** \$120 Engineering Lab Fee**Corequisite:** 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. Previously ME 0310L.

MEEG 4312 Advanced Product Design and Manufacturing**3 Credits****Corequisite:** MEEG 4310L.**Prerequisite:** 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:** 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. Previously ME 0319.

MEEG 4321 Theory and Applications of Robot Kinematics**3 Credits****Prerequisite:** 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. Previously ME 0321.

MEEG 4322 Advanced Dynamics**3 Credits****Prerequisite:** 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. Previously ME 0322.

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. Previously ME 0323.

MEEG 4324 Micro and Nano Manufacturing**3 Credits****Prerequisites:** 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. Previously ME 0324.

MEEG 4325 Engineering Systems Dynamics**3 Credits****Prerequisites:** 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. Previously ME 0325.

MEEG 4327 Fracture Mechanics**3 Credits****Prerequisite:** 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. Previously ME 0327.

MEEG 4330 Mechanics of Composite Materials**3 Credits****Prerequisite:** 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. Previously ME 0330.

MEEG 4346 Energy Conversion**3 Credits****Prerequisite:** MEEG 3347.

This course covers the major topics in energy conversion, including fuels used in energy conversion; solar energy; gas turbine engines and applications; internal combustion engines; heat pumps; classic and novel power and refrigeration cycles; system analysis; system economics; and environmental considerations. The course includes computer simulation of power plant performance to optimize energy conversion efficiency. Students will be required to conduct a research on the environmental impacts of the major current energy conversion systems. Graduate equivalent: MEEG 5346. Previously ME 0346.

MEEG 4349 Heat Transfer**3 Credits****Prerequisites:** MATH 3332, 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. Previously ME 0349.

MEEG 4350L Energy Transfer Lab**1 Credit****Fee:** \$120 Engineering Lab Fee**Corequisites:** 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. Previously ME 0350L.

MEEG 4353 Computational Fluid Dynamics**3 Credits****Prerequisites:** 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. Previously ME 0353.

MEEG 4354 Heat and Mass Transfer**3 Credits****Prerequisite:** 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. Previously ME 0354.

MEEG 4356 Renewable Wind Energy**3 Credits****Prerequisites:** 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:** 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:** 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. Previously ME 0362.

MEEG 4364 Combustion**3 Credits****Prerequisite:** 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. Previously ME 0364.

MEEG 4372 Applications of Theory of Elasticity**3 Credits****Prerequisite:** 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. Previously ME 0372.

MEEG 4376 Stability of Structures**3 Credits****Prerequisite:** 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:** 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. Previously ME 0382.

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. Previously ME 0400.

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. Previously ME 0403.

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. Previously ME 0405.

MEEG 5310L Product Manufacturing Lab**1 Credit****Fee:** \$120 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. Previously ME 0410L.

MEEG 5312 Advanced Product Design and Manufacturing 3 Credits
Corequisite: 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. Previously ME 0470.

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. Previously ME 0411.

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. Previously ME 0412.

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. Previously ME 0423.

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. Previously ME 0424.

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. Previously ME 0427.

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. Previously ME 0444.

MEEG 5346 Energy Conversion 3 Credits

This course covers selected topics in energy conversion, including fuels used in energy conversion, solar energy, gas turbine engines and applications, internal combustion engines, battery power, heat pumps, classic and novel power and refrigeration cycles, system analysis, system economics, and environmental considerations. The course includes computer simulation of power plant performance to optimize energy conversion efficiency. A research report and class presentation of an independent research on one of the emerging sources of energy is an essential part of this course. Undergraduate equivalent: MEEG 4346. Previously ME 0451.

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. Previously ME 0428.

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. Previously ME 0452.

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. Previously ME 0453.

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. Previously ME 0464.

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. Previously ME 0472.

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. Previously ME 0410.

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. Previously ME 0415.

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. Previously ME 0495.

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. Previously ME 0550.

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. Previously ME 0551.

Music (MUSC)

MUSC 1101 The History of Jazz**3 Credits**

Attributes: ASGW American Studies: Gateway, ASVP American Studies: Visual and Performing Arts, BSAH Black Studies: Arts and Humanities, BSFC Black Studies Focus Course, DEIE Diversity, Equality, and Inclusion Elective, EDCG 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. Previously MU 0101.

MUSC 1102 History and Development of Rock**3 Credits**

Attributes: ASGW American Studies: Gateway, ASVP American Studies: Visual and Performing Arts, DEIE Diversity, Equality, and Inclusion 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. Previously MU 0102.

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. Previously MU 0103.

MUSC 1104 History of Music: 1700-1964**3 Credits**

Attributes: MUEM 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. Previously MU 0104.

MUSC 1112 Music of Black Americans**3 Credits**

Attributes: ASGW American Studies: Gateway, ASVP American Studies: Visual and Performing Arts, BSAH Black Studies: Arts and Humanities, BSFC Black Studies Focus Course, DEIE Diversity, Equality, and Inclusion Elective, EDCG 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. Previously MU 0112.

MUSC 1120 History of American Song**3 Credits**

Attributes: ASGW American Studies: Gateway, ASVP 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. Previously MU 0120.

MUSC 1122 World Music History and Ensemble**3 Credits**

Attributes: BSAH Black Studies: Arts and Humanities, BSFC Black Studies Component Course, EDCG Educational Studies Cognate, INEL International Studies Elective, LCEL LACS 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. Previously MU 0122.

MUSC 1124 Bach and Beethoven**3 Credits**

Attributes: GMEL German Major or Minor Course, GMEN German Course Taught in English

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. Previously MU 0124.

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. Previously MU 0126.

MUSC 1132 Critical Issues in American Popular Music: Blues to Hip Hop **3 Credits**

Attributes: ASVP American Studies: Visual and Performing Arts, BSAH Black Studies: Arts and Humanities, BSCC Black Studies Component Course, DEIE Diversity, Equality, and Inclusion 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. Previously MU 0132.

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. Previously MU 0150.

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. Previously MU 0155.

MUSC 1156 Introduction to Music Technology: History and Practice **3 Credits**

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. Previously MU 0156.

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. Previously MU 0157.

MUSC 1243 19th Century Romanticism in Music **3 Credits**

Attributes: ISIF Italian Studies: Italy-Focused, ITEN Italian Course Taught in English
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 MU 0243, MUSC 2243.

MUSC 1953 Jazz Ensemble **1 Credit**

Prerequisites: Instrumental or vocal performance experience; selection through audition.

Jazz Ensemble is open to musicians who wish to develop their skills in jazz performance. Students rehearse and receive instruction in performing and improvising in different styles of jazz, from swing to fusion. This course may be taken repeatedly. Previously MU 0256.

MUSC 2201 Hip Hop Evolution: From the South Bronx to the World **3 Credits**

Attributes: BSFC Black Studies Focus Course, DEIE Diversity, Equality, and Inclusion Elective, MUAM American Music, MUHI 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 hip-hop help us understand race, class, gender, power, and oppression? Artists studied will not be those with the highest number of albums sold, but those with significant musical or lyrical content and impact on hip-hop as a whole. Previously MU 0201.

MUSC 2215 American Musical Theatre: History and Practice **3 Credits**

Prerequisite: One music or theatre course.

Musical theatre is a complex genre that has developed in tandem with the developing American nation. It is a serious art form that, in its finest iterations, represents total works of art unique in and of themselves. This course expands students' knowledge of the range and diversity of the genre as codified in the middle 20th century by Rodgers and Hammerstein and their imitators. Embedded in great musical theatre pieces is the essence of what it means to be an American living in the United States at a particular time in history. Crosslisted with THTR 2215. Previously MU 0215.

MUSC 2236 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. Previously MU 0202.

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. Previously MU 0242.

MUSC 2244 Music of the 20th Century	3 Credits	MUSC 3922 Private Lessons: Jazz/Pop Piano	2 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. Previously MU 0244.		Fee: \$685 Music Lesson Fee	
MUSC 2245 Survey of Film Music: Hearing the Movies	3 Credits	MUSC 3923 Private Lessons: Saxophone	2 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. Previously MU 0245.		Fee: \$685 Music Lesson Fee	
MUSC 2250 Music Theory and Composition II	3 Credits	MUSC 3924 Private Lessons: Trombone	2 Credits
Prerequisite: MUSC 1150.		Fee: \$685 Music Lesson Fee	
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. Previously MU 0250.		MUSC 3925 Private Lessons: Trumpet	2 Credits
MUSC 2900 Special Topics in Music: Group voice, Technique and practice	3 Credits	Fee: \$685 Music Lesson Fee	
Attributes: MEVP Magis Core Exploration: VPA		MUSC 3926 Private Lessons: Violin	2 Credits
Prerequisite: One 1000-level music course.		Fee: \$685 Music Lesson Fee	
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. Previously MU 0200.		MUSC 3927 Private Lessons: Viola	2 Credits
MUSC 3911 Private Lessons: Bass	2 Credits	Fee: \$685 Music Lesson Fee	
Fee: \$685 Music Lesson Fee		MUSC 3928 Private Lessons: Voice	2 Credits
MUSC 3912 Private Lessons: Bassoon	2 Credits	Fee: \$685 Music Lesson Fee	
Fee: \$685 Music Lesson Fee		MUSC 3951 Instrumental Ensembles	1 Credit
MUSC 3913 Private Lessons: Cello	2 Credits	Prerequisite: Orchestra or symphonic band performance experience.	
Fee: \$685 Music Lesson Fee		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 MU 0255, MUSC 1951.	
MUSC 3914 Private Lessons: Clarinet	2 Credits	MUSC 3953 Jazz Ensemble	1 Credit
Fee: \$685 Music Lesson Fee		Prerequisites: Instrumental or vocal performance experience; selection through audition.	
MUSC 3915 Private Lessons: Flute	2 Credits	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 MU 0256, MUSC 1953.	
Fee: \$685 Music Lesson Fee		MUSC 3980 Internship	1-3 Credits
MUSC 3916 Private Lessons: Guitar	2 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. Previously MU 0305.	
Fee: \$685 Music Lesson Fee		MUSC 3990 Independent Study	1-3 Credits
MUSC 3917 Private Lessons: Harp	2 Credits	Attributes: MUHI Music History	
Fee: \$685 Music Lesson Fee		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. Previously MU 0300-0301.	
MUSC 3918 Private Lessons: Oboe	2 Credits	MUSC 4998 Senior Capstone Project I	3 Credits
Fee: \$685 Music Lesson Fee		Attributes: MUHI Music History	
MUSC 3919 Private Lessons: Percussion	2 Credits	The capstone project provides opportunities for majors to work at a very high level, reflecting their expertise and ongoing research. Enrollment by permission only. Previously MU 0310.	
Fee: \$685 Music Lesson Fee		MUSC 4999 Senior Capstone Project II	3 Credits
MUSC 3920 Private Lessons: Piano	2 Credits	Attributes: MUAP Applied Music	
Fee: \$685 Music Lesson Fee		The capstone project provides opportunities for majors to work at a very high level, reflecting their expertise and ongoing research. Enrollment by permission only. Previously MU 0311.	
MUSC 3921 Private Lessons: Beginning Piano	2 Credits		
Fee: \$685 Music Lesson Fee			

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. Previously NS 0110.

NURS 1112 Healthcare Delivery Systems

3 Credits

Attributes: DEIE Diversity, Equality, and Inclusion Elective, EDCG Educational Studies Cognate, HSTE Health Studies: Traditions, Delivery, and Ethics

The health care delivery system is explored from a historical, economic, political, and health information technology perspective. Emphasis is given to social, ethical, and legal aspects of the current system that remain unresolved, such as access to care, health disparities, and equity. The history and progression of healthcare reform and its influence on our current healthcare system performance will be analyzed. Global health issues and their impact on the delivery of health care services are discussed, along with consumer use of complementary and alternative therapies. This course is designed to give an inter-professional perspective to students interested in health care from any field of study. 42 theory hours. Previously NS 0112.

NURS 2250 Dimensions of Professional Nursing

3 Credits

Prerequisites: Connecticut RN license or academic transcript and approval of advisor.

This course is designed to facilitate career advancement of the registered nurse to the baccalaureate level. This is the first course in the RN/BSN completion program. Consideration of values, culture, philosophy, and personal goals are examined as part of the student's professional development. Communication, clinical reasoning, and conflict resolution techniques will be utilized to foster positive inter-professional teams. Students will demonstrate an evidence based approach to analyze current healthcare issues including social justice and diversity in professional practice. 42 theory hours. Previously NS 0250.

NURS 2270 Health Assessment

4 Credits

Prerequisites: 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. Previously NS 0270.

NURS 2270L Health Assessment Lab

0 Credits

NURS 2272 Geriatric Nursing

4 Credits

Prerequisites: 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. Previously NS 0272. (*indicates concurrency allowed)

NURS 2272C Geriatric Nursing Clinical

0 Credits

NURS 2303 Basic Pathophysiology and Pharmacology

3 Credits

Prerequisites: 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. Previously NS 0303.

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. Previously NS 0385.

NURS 2900A Special Topics: Integrating Spirituality into Nursing

Practice: Standing on Holy Ground

3 Credits

Prerequisite: Junior standing.

This course provides an opportunity for advanced nursing students to explore the role of spirituality in nursing and develop resources to enhance a holistic approach to nursing practice. Self-care, spiritual assessment, and compassionate care will be explored. Content includes review of ELNEC modules, integrating spirituality and religion into nursing practice, development of spiritual resources, and personal exploration of the nurse's spiritual journey.

NURS 3301 Health and Wellness

3 Credits

Prerequisites: 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. Previously NS 0301. (*indicates concurrency allowed)

NURS 3305 Mental Health Nursing 4 Credits

Prerequisites: 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. Previously NS 0305. (*indicates concurrency allowed)

NURS 3305C Mental Health Nursing Clinical 0 Credits**NURS 3307 Fundamentals of Nursing Care 4 Credits**

Prerequisites: 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. Previously NS 0307.

NURS 3307L Fundamentals of Nursing Care Lab 0 Credits**NURS 3310 Foundations of Research for Evidence Based Practice 3 Credits**

Prerequisite: 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. Previously NS 0310.

NURS 3312 Medical Surgical Nursing I 5 Credits

Prerequisites: 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. Previously NS 0312. (*indicates concurrency allowed)

NURS 3312C Medical Surgical Nursing I Clinical 0 Credits**NURS 3314 Maternal and Newborn Nursing 4 Credits**

Attributes: WSGF Women, Gender, and Sexuality Studies: Gender Focused

Prerequisite: 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. Previously NS 0314. (*indicates concurrency allowed)

NURS 3314C Maternal and Newborn Nursing Clinical 0 Credits**NURS 4321 Professional Nursing Leadership 3 Credits**

Prerequisites: 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. Previously NS 0321. (*indicates concurrency allowed)

NURS 4323 Pediatric Nursing 4 Credits

Prerequisite: 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. Previously NS 0323. (*indicates concurrency allowed)

NURS 4323C Pediatric Nursing Clinical 0 Credits**NURS 4325 Medical Surgical Nursing II 5 Credits**

Prerequisites: 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. Previously NS 0325. (*indicates concurrency allowed)

NURS 4325C Medical Surgical Nursing II Clinical 0 Credits**NURS 4330 Population Health 4 Credits**

Attributes: HSTE Health Studies: Traditions, Delivery, and Ethics, LCEL LACS Minor: Elective

Prerequisite: NURS 2250* or NURS 4325*.

This course focuses on the care of people in their homes, in communities, and around the world. Principles of disease prevention, risk reduction, and health promotion are applied to diverse populations in the USA and worldwide. Students synthesize prior experience and learning with public health theory to provide collaborative, quality care across the lifespan.

Using an ecological model, students engage in evidence based care for individuals, families, groups, communities and populations. Global issues related to the impact of social policies on healthcare and health equity, and needs of vulnerable populations are also examined. 42 theory hours, 42 clinical hours. Previously NS 0330. (*indicates concurrency allowed)

NURS 4330C Population Health Clinical 0 Credits

NURS 4332 Transition to Professional Nursing 4 Credits**Prerequisites:** 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, 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. Previously NS 0332. (*indicates concurrency allowed)

NURS 4332C Transition to Professional Nursing Clinical 0 Credits**NURS 4360 Critical Care Nursing 3 Credits****Fee:** \$250**Prerequisite:** NURS 4325.

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. Previously NS 0360.

NURS 4365 Forensic Science in the Health Care Setting 3 Credits

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.

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. Previously NS 0399.

NURS 4990C Independent Study in Clinical Practice 0 Credits**Prerequisite:** 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. Principles of disease prevention, risk reduction, and health promotion are applied to diverse populations in the USA and worldwide. Students synthesize prior experience and learning with public health theory to provide collaborative, quality care across the lifespan. Using an ecological model, students engage in evidence based care for individuals, families, groups, communities and populations. Global issues related to the impact of social policies on healthcare and health equity, and needs of vulnerable populations are also examined. 42 theory hours, 42 clinical hours. 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: \$250**

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**

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. Previously NS 0521.

NURS 6523 Quality Outcomes Management I**5 Credits**

Prerequisites: 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. Previously NS 0523.

NURS 6524 Quality Outcomes Management II**5 Credits****Prerequisite:** 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. Previously NS 0524.

NURS 6951 Master's Leadership Practicum**4 Credits****Prerequisites:** 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. Previously NS 0525.

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. Previously NS 0598.

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. Previously NS 0602.

NURS 7604 Advanced Health Assessment**4 Credits****Prerequisite:** 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 \$400. 28 theory hours, 56 lab hours. Previously NS 0604.

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. Previously NS 0609.

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. Previously NS 0610.

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
Prerequisites: 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. Previously NS 0612.

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. Previously NS 0613.

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. Previously NS 0614.

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. Previously NS 0615.

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. Previously NS 0640.

NURS 7641 Advanced Pharmacology 3 Credits
Prerequisite: 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. Previously NS 0641.

NURS 7642 Adult Health I**3 Credits****Prerequisites:** 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. Previously NS 0642.

NURS 7643 Adult Health II**4 Credits****Prerequisite:** 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. Previously NS 0643.

NURS 7645 Care of Children and Families**3 Credits****Corequisite:** NURS 7952.**Prerequisite:** 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. Previously NS 0645.

NURS 7647 Care of At-Risk Populations**3 Credits****Corequisite:** NURS 7953.**Prerequisites:** 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. Previously NS 0647.

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. Previously NS 0650.

NURS 7651 Mental Health Nursing of Children and Adolescents**2 Credits****Prerequisite:** 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. Previously NS 0665.

NURS 7652 Mental Health Nursing of Individuals Across the Lifespan**3 Credits****Corequisite:** NURS 7659.**Prerequisites:** 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. Previously NS 0652.

NURS 7659 Foundational Clinical Skills for Advanced Psychiatric Nursing Practice 3 Credits**Corequisite:** NURS 7652.**Prerequisite:** 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:** NURS 7955.**Prerequisite:** 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. Previously NS 0661.

NURS 7663 Primary Mental Health Nursing of At-Risk Populations Across the Lifespan 2 Credits**Corequisite:** NURS 7956.**Prerequisite:** 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. Previously NS 0663.

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. Previously NS 0667.

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. Previously NS 0668.

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. Previously NS 0670.

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. Previously NS 0687.

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. Previously NS 0697.

NURS 7699 DNP Seminar II**1 Credit****Prerequisite:** 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. Previously NS 0699.

NURS 7951 Practicum in Adult Health I**4 Credits****Prerequisite:** 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. Previously NS 0644.

NURS 7952 Clinical Conference Across the Lifespan: FNP Practicum I**4 Credits****Corequisite:** NURS 7645.**Prerequisite:** 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. Previously NS 0646.

NURS 7953 Clinical Conference Across the Lifespan: FNP Practicum II**4 Credits****Corequisite:** NURS 7647.**Prerequisite:** 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. Previously NS 0648.

NURS 7954 Practicum I: PMHNP**4 Credits****Prerequisite:** 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. Previously NS 0666A.

NURS 7955 Practicum II: PMHNP**4-5 Credits****Corequisite:** 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. Previously NURS 0666B.

NURS 7956 Practicum III: PMHNP**4-6 Credits****Corequisite:** 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. Previously NS 0666C.

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. Previously NS 0698.

Nursing: Anesthesia (NSAN)

NSAN 7640 Professional Aspects of Nurse Anesthesia Practice I 1 Credit**Prerequisite:** 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:** 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**Co-requisite:** NSAN 7677.**Prerequisite:** 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****Co-requisite:** NSAN 7651L, NSAN 7677.**Prerequisite:** 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**Co-requisite:** NSAN 7651.**Prerequisite:** 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****Prerequisite:** 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. Co-requisite: NSAN 7652L

NSAN 7652L Ultrasound Guided Concepts and Techniques II Lab 0 Credits**Co-requisite:** NSAN 7652.**Prerequisite:** 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 for Anesthesia Practice 4 Credits

This course focus is on the pathophysiological processes central to alterations in function across the lifespan. Analysis of pathophysiologic responses, implications of genetics and genomics, and laboratory data pertinent to acute and chronic disease is discussed. Students analyze the pathophysiology of patients presenting for in-patient and ambulatory procedures using a case study approach. 56 theory hours. Previously NS 0669 and 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. Previously NSAN 0673.

NSAN 7672 Pharmacologic Strategies in Anesthesia Practice 3 Credits

Prerequisites: 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. Previously NSAN 0671.

NSAN 7673 Principles of Nurse Anesthesia Practice I 4 Credits

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

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. Co-requisite: NSAN 7673

NSAN 7674 Principles of Nurse Anesthesia Practice II 4 Credits

Prerequisite: 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. Previously NSAN 0687.

NSAN 7674L Principles of Nurse Anesthesia Practice II Lab 0 Credits

Prerequisite: 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. Co-requisite: NSAN 7674

NSAN 7675 Clinical Orientation and Specialty Rotations 1 Credit

Prerequisite: NSAN 7677.

Clinical orientation is designed to introduce the student to the hands-on basics of nurse anesthesia practice. Emphasis will be placed on anesthesia equipment setup drug preparation, basic airway management skills and basic regional anesthesia skills. In addition, students will begin the process of developing patient specific anesthesia care plans on simulated patients utilizing current best practices. Students also take part in an orientation to the PACU, anesthesia pain service, anesthesia preoperative holding area, preoperative testing and respiratory therapy service. These rotations introduce the student to the adjunct hospital services necessary for the care of the patient during the perioperative period. Current standards of care and codes of ethical practice, including issues surrounding wellness and chemical dependency, will also be explored. Previously NSAN 0675.

NSAN 7676 Regional Anesthesia and Pain Management in Clinical Practice 2 Credits

Prerequisite: NSAN 7677.

This course presents a comprehensive study of the regional anesthesia techniques currently utilized in clinical practice. Basic principles of neuroscience, pharmacology of local anesthetics and ultrasound technology will be applied. Emphasis will be put on the appropriate selection and application of regional techniques to achieve optimal anesthesia and analgesia for surgery and pain management. Teaching methods will include lecture, demonstration and hands-on regional workshops. Previously NSAN 0678.

NSAN 7677 Principles of Nurse Anesthesia Practice III 4 Credits

Prerequisite: 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:** 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. Previously NSAN 0683.

NSAN 7679 Principles of Nurse Anesthesia Practice IV**2 Credits****Prerequisite:** 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****Co-requisite:** NSAN 7956.**Prerequisite:** 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****Co-requisite:** NSAN 7957.**Prerequisite:** 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****Co-requisite:** NSAN 7958.**Prerequisite:** 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****Co-requisite:** NSAN 7959.**Prerequisite:** 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****Co-requisite:** NSAN 7960.**Prerequisite:** 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****Co-requisite:** NSAN 7641.**Prerequisite:** 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 7951 Clinical Practicum I**1 Credit****Prerequisites:** NSAN 7675, NSAN 7676.

Clinical Practicum I is designed for the novice practitioner to integrate academic knowledge with basic practical application. Emphasis will be placed on basic airway management, function and usage of anesthesia equipment; pre-operative assessment and evaluation, intra-operative management and post-anesthesia management for healthy ASA Class I and Class II patients. The student works side by side with a certified anesthesia provider at all times. Previously NSAN 0676.

NSAN 7952 Clinical Practicum II**1 Credit****Prerequisite:** NSAN 7951.

This clinical practicum provides experience for the beginning intermediate student practitioner who has demonstrated successful completion of Clinical Practicum I. Clinical Practicum II deals with the incorporation and integration of knowledge, skills and objectives for a more comprehensive and complex range of patients and surgeries. Emphasis is placed on the development of independent critical decision making skills as the students begins to gain independence in practice. Previously NSAN 0677.

NSAN 7953 Clinical Practicum III**2 Credits****Prerequisite:** NSAN 7952.

This course provides experience for the intermediate student practitioner in order to incorporate and integrate advanced academic knowledge, clinical skills, and critical decision making for a more comprehensive range of patients. At the completion of Clinical Practicum III the student will demonstrate the ability to manage the anesthesia care of the ASA Class I-V and IE-VE with supervision. Student independence is encouraged as the intermediate anesthesia provider works alone with attending physicians for healthy uncomplicated procedures and supervised for more complex cases. Previously NSAN 0680.

NSAN 7954 Clinical Practicum IV**2 Credits****Prerequisite:** NSAN 7953.

This clinical practicum is designed to allow the advanced student practitioner to integrate all previously attained knowledge and clinical skills into anesthesia practice for all elective and emergency ASA Class I-V patients. At the completion of Clinical Practicum IV the Advanced Student Practitioner will be able to formulate, implement and evaluate a plan for perioperative anesthesia care for adult and pediatric ASA I-V patients and ASA IE-VE patients with supervision, demonstrate critical thinking skills in a diverse range of clinical situations, including off-site anesthesia locations and as a member of the "code team," work in a collaborative effort with other members of the anesthesia and surgical care teams, exhibit ethical and professional behavior in anesthesia practice and function as a patient advocate. Previously NSAN 0682.

NSAN 7955 Clinical Practicum V**2 Credits****Prerequisite:** NSAN 7954.

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 Clinical Practicum V the student will be able to function as an independent practitioner and will have met all of the requirements in order to sit for the national certification examination. The complex practitioner will be able to formulate, implement and evaluate a plan for perioperative anesthesia care for adult and pediatric ASA I-V and ASA IE-VE patients, demonstrate critical thinking skills in all clinical situations and patient care venues, work in a collaborative effort with other members of the anesthesia and surgical care team, function as a team leader and collaborative member in cardiopulmonary resuscitation, and exhibit ethical and professional behavior in anesthesia practice. Previously NSAN 0685.

NSAN 7956 Nurse Anesthesia Residency I**3 Credits****Prerequisites:** NSAN 7675, NSAN 7676.

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:** 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:** 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:** 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:** 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****Co-requisite:** NSAN 7960.**Prerequisite:** 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

Corequisites: NURS 7601, NURS 7608, NURS 7697.

Prerequisites: 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. Previously NSMW 0622.

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**

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**

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 preconceptional, interconceptional 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**

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**

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**

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 Nutrition for Prevention and Treatment of Chronic Disease**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 7055 Nutrition and Global Health**3 Credits**

This course provides information on the major health challenges faced globally. In addition, determinants of health and disease, emerging health priorities, impact of poverty, health systems, and global initiatives for disease prevention and health promotion will be explored.

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 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**

Supervised experiential learning applying prior knowledge in a clinical setting. Practicum will include working with patients with various disease states. Students will work under the supervision of Registered Dietitians providing Medical Nutrition Therapy for various disease states using the Nutrition Care Process.

NUTR 7954 Advanced Practice Residency**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: 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**

Attributes: PJST 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.

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 organizations in the greater Bridgeport area and some placements include advocacy work in the state legislator in Hartford. The internship requires a journal and final reflection paper based on analysis of the site experience and its relationship to peace and justice. Enrollment by permission only. Previously PJ 0298.

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 the students the opportunity to examine how their major connects to the values and practices of peace and justice. Students undertake a major research project focused on applying their practical engagement with peace and justice issues to broader theoretical frameworks with attention to contemplating a vision for change in the future. The course is built around student-led discussion and an in-depth research project that analyzes an issue from the student's major area of study through the lens of peace and justice. Previously PJ 0398.

Philosophy (PHIL)

PHIL 1101 Introduction to Philosophy**3 Credits**

This course is a topical introduction to philosophy. The aim of the course is to introduce students to the vocation of wonder and questioning by engaging students in discussions about some of the basic questions of philosophy. Students will read texts from historical and contemporary writers, and will be asked to develop their own skills of thinking, reading, and writing critically. Previously PH 0101.

PHIL 2200 Ancient Philosophy**3 Credits**

Prerequisite: 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? Previously PH 0200.

PHIL 2201 Medieval and Renaissance Philosophy**3 Credits**

Prerequisite: 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. Previously PH 0201.

PHIL 2202 Modern Philosophy**3 Credits**

Prerequisite: 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. Previously PH 0202.

PHIL 2204 20th Century Philosophy**3 Credits**

Prerequisite: 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. Previously PH 0204.

PHIL 2205 Ancient Medicine & Philosophy**3 Credits**

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

Prerequisite: 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. Previously PH 0205.

PHIL 2206 Philosophical Perspectives on Women in Classical Literature 3 Credits

Attributes: WSGF Women, Gender, and Sexuality Studies: Gender Focused
Prerequisite: 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. Previously PH 0206.

PHIL 2209 Existentialism 3 Credits

Attributes: FREN French Course Taught in English
Prerequisite: 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." Previously PH 0209.

PHIL 2210 Phenomenology 3 Credits

Attributes: CAOT Catholic Studies: Non-Religious Studies
Prerequisite: 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? Previously PH 0210.

PHIL 2215 Philosophy of Science 3 Credits

Prerequisite: 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. Previously PH 0215.

PHIL 2216 Philosophy and Biology of Evolutionary Theory 3 Credits

Prerequisite: 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. Previously PH 0216.

PHIL 2217 Logic 3 Credits

Prerequisite: PHIL 1101.

This course provides a basic acquaintance with prevailing systems and methods of logic, notably traditional (Aristotelian) and modern (standard mathematical) logics. Previously PH 0217.

PHIL 2218 Philosophy and Biochemistry of Food and Eating Practices 3 Credits

Prerequisite: 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. Previously PH 0218.

PHIL 2220 Philosophy of Religion 3 Credits

Attributes: CAOT Catholic Studies: Non-Religious Studies

Prerequisite: 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. Previously PH 0220.

PHIL 2221 The Question of Theology 3 Credits

Attributes: CAOT Catholic Studies: Non-Religious Studies

Prerequisite: 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. Previously PH 0221.

PHIL 2222 Evil 3 Credits

Prerequisite: 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? Previously PH 0222.

PHIL 2223 The Problem of God**3 Credits****Attributes:** CAOT Catholic Studies: Non-Religious Studies**Prerequisite:** 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. Previously PH 0223.

PHIL 2224 Critical Thinking**3 Credits****Prerequisite:** 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. Previously PH 0224.

PHIL 2230 Philosophy of Self and Subjectivity**3 Credits****Prerequisite:** 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. Previously PH 0230.

PHIL 2240 Introduction to Asian Philosophies**3 Credits****Attributes:** ANMC Asian Studies Elective, INEL International Studies Elective**Prerequisite:** 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. Previously PH 0240.

PHIL 2241 Confucianism**3 Credits****Attributes:** ANMC Asian Studies Elective, INEL International Studies Elective**Prerequisite:** 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. Previously PH 0241.

PHIL 2242 Yoga: Philosophy and Practice**3 Credits****Attributes:** ANMC 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**

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.

Prerequisite: PHIL 1101**PHIL 2250 Ethical Theory****3 Credits****Prerequisite:** 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. Previously PH 0250.

PHIL 2251 Ethical Theories in America**3 Credits****Attributes:** ASPH American Studies: Philosophy, ASUP American Studies Upper Level**Prerequisite:** 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. Previously PH 0251.

PHIL 2252 Philosophy as a Way of Life**3 Credits****Prerequisite:** 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. Previously PH 0252.

PHIL 2255 Leadership Ethics Seminar**3 Credits****Prerequisites:** 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. Previously PH 0255.

PHIL 2260 Social and Political Philosophy**3 Credits****Attributes:** DEIE Diversity, Equality, and Inclusion Elective, PJST Peace and Justice Studies**Prerequisite:** PHIL 1101.

This course analyzes the writings of leading social and political thinkers, with special consideration of the movements of protest and dissent. Previously PH 0260.

PHIL 2263 The Concept of Human Rights**3 Credits****Attributes:** DEIE Diversity, Equality, and Inclusion Elective, INEL International Studies Elective, PJST Peace and Justice Studies**Prerequisite:** 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. Previously PH 0263.

PHIL 2264 Philosophy of Law**3 Credits****Attributes:** PACJ Public Administration Criminal Justice**Prerequisite:** 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. Previously PH 0264.

PHIL 2265 Philosophy and Economic Anthropology**3 Credits****Attributes:** DEIE Diversity, Equality, and Inclusion Elective, INEL International Studies Elective, PMMP Philosophy Major: Major Philosopher**Prerequisite:** 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. Previously PH 0265.

PHIL 2266 Philosophy, Catholic Social Teaching and the Economy**4 Credits****Attributes:** MSJ2 Magis Core: Social Justice II, MWAC Magis Core: Writing Across Curriculum**Prerequisite:** 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 ascendancy 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****Attributes:** BSFC Black Studies Focus Course, DEIE Diversity, Equality, and Inclusion Elective, PJST Peace and Justice Studies**Prerequisite:** 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. Previously PH 0267.

PHIL 2270 Aesthetics**3 Credits****Prerequisite:** 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. Previously PH 0270.

PHIL 2272 Philosophy of Film**3 Credits****Prerequisite:** 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. Previously PH 0272.

PHIL 2281 Philosophies of Love and Sex**3 Credits****Attributes:** WSGF Women, Gender, and Sexuality Studies: Gender Focused**Prerequisite:** 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. Previously PH 0281.

PHIL 2282 Violence and the Sacred**3 Credits****Attributes:** CAOT Catholic Studies: Non-Religious Studies, PJST Peace and Justice Studies, WSGF Women, Gender, and Sexuality Studies: Gender Focused**Prerequisite:** 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. Previously PH 0282.

PHIL 2283 Philosophy and Pornography**3 Credits****Attributes:** WSGF Women, Gender, and Sexuality Studies: Gender Focused**Prerequisite:** 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. Previously PH 0283.

PHIL 2900 Special Topics (Shell)**3 Credits****Prerequisite:** 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. Previously PH 0299.

PHIL 3300 Plato**3 Credits****Prerequisite:** 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. Previously PH 0300.

PHIL 3301 Aristotle**3 Credits****Prerequisite:** 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. Previously PH 0301.

PHIL 3304 Aquinas**3 Credits****Attributes:** CAOT Catholic Studies: Non-Religious Studies, ISIF Italian Studies: Italy-Focused**Prerequisite:** 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. Previously PH 0304.

PHIL 3307 Descartes**3 Credits****Attributes:** FREN French Course Taught in English**Prerequisite:** 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. Previously PH 0307.

PHIL 3310 Hume**3 Credits****Prerequisite:** 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. Previously PH 0310.

PHIL 3311 Kant**3 Credits****Prerequisite:** 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. Previously PH 0311.

PHIL 3314 Nietzsche**3 Credits****Prerequisite:** 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. Previously PH 0314.

PHIL 3317 Heidegger**3 Credits****Prerequisite:** Two courses in philosophy.

This course explores the work of Martin Heidegger (1889-1976), one of the most influential philosophers of the 20th century. It primarily takes the form of a close reading of *Being and Time* (1927) and *The Origin of the Work of Art* (1936). The course hinges on Derrida's reading of Heidegger's existential analysis of death. Previously PH 0317.

PHIL 3321 Knowledge**3 Credits****Prerequisite:** 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? Previously PH 0321.

PHIL 3323 Philosophy of Mind**3 Credits****Prerequisite:** 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! Previously PH 0323.

PHIL 3331 Philosophy of Language**3 Credits****Prerequisite:** 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. Previously PH 0331.

PHIL 3340 Critical Theory**3 Credits****Prerequisite:** 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. Previously PH 0340.

PHIL 3350 Advanced Topics in Ethics**3 Credits****Prerequisite:** 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. Previously PH 0350.

PHIL 3360 Critical Race Theory**3 Credits****Attributes:** BSAH Black Studies: Arts and Humanities, BSFC Black Studies Focus Course, DEIE Diversity, Equality, and Inclusion Elective, PJST Peace and Justice Studies**Prerequisite:** 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 PH 0360.

PHIL 3990 Independent Study**1-3 Credits****Prerequisite:** 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. Previously PH 0398.

PHIL 4999 Capstone Experience**3 Credits****Prerequisite:** 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. Previously PH 0399.

Physics (PHYS)

PHYS 1071 Physics of Light and Color**3 Credits****Attributes:** EDCG Educational Studies Cognate

This course, intended for students who are not majoring in the physical sciences, covers the particle-wave duality of light and the relationship of light to other electromagnetic waves. Additional topics include polarization, vision, color and the perception of color, optical phenomena in nature and in biological systems, color and light in art, simple optical instruments, sources of light and their spectra, lasers, and holography. Previously PS 0071.

PHYS 1076 Physics of Sound and Music**3 Credits****Attributes:** EDCG Educational Studies Cognate

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. Previously PS 0076.

PHYS 1077 Science and Technology of War and Peace**3 Credits****Attributes:** EDCG Educational Studies Cognate

Designed for the non-science major, this course includes critical discussion and descriptive exposition of the swords and plowshares dilemma, of the concept that science and technology have been used to build up and tear down civilization, and of the forces of civilization driving and being driven by the dual nature of our technological heritage. The course begins with the first lever and club and ends with laser surgery and Star Wars lasers, taking a historical and a thematic approach where appropriate. The course describes, in the simplest terms, the way important real devices (television, telephones, lasers, gas turbines, thermonuclear weapons, etc.) work, examining their illustration of and limitations by scientific principles at a qualitative level. The course also considers the technical future from a past, present, and future perspective, asking: What can, could, didn't, might, and can we not do? The course illustrates the moral and ethical implications of science where appropriate. Knowledge of no more than high school algebra is required. Previously PS 0077.

PHYS 1078 Nature of the Universe**3 Credits**

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. Previously PS 0078.

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. Previously PS 0087.

PHYS 1089 Physics of Sport**3 Credits****Attributes:** EDCG Educational Studies Cognate, MSID Magis Core:

Interdisciplinary, SPEL 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. Previously PS 0089.

PHYS 1090 Physics of the Atmosphere, Ocean, and Climate**3 Credits****Attributes:** EVNS Environmental Studies: Natural Science, MSID 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. Previously PS 0090.

PHYS 1093 Energy and Environment**3 Credits****Attributes:** EDCG Educational Studies Cognate, EVME Environmental Studies Major Elective, EVNS Environmental Studies: Natural Science, EVPE Environmental Studies Elective

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. Previously PS 0093.

PHYS 1145 General Physics for Life Sciences I**3 Credits****Corequisite:** 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:** \$120 Science Lab Fee**Corequisite:** 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 and momentum, and rotational dynamics. Students complete a weekly lab report.

PHYS 1146 General Physics for Life Sciences II**3 Credits****Corequisite:** PHYS 1146L.**Prerequisite:** 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:** \$120 Science Lab Fee**Corequisite:** 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. Students complete a weekly lab report.

PHYS 1171 General Physics I**3 Credits****Corequisite:** PHYS 1171L.**Prerequisite:** 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. Previously PS 0115.

PHYS 1171L General Physics I Lab**1 Credit****Fee:** \$120 Science Lab Fee**Corequisite:** 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 and momentum, and rotational dynamics. Students complete a weekly lab report. Previously PS 0115L.

PHYS 1172 General Physics II**3 Credits****Corequisite:** PHYS 1172L.**Prerequisites:** 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. Previously PS 0116.

PHYS 1172L General Physics II Lab**1 Credit****Fee:** \$120 Science Lab Fee**Corequisite:** 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. Students complete a weekly lab report. Previously PS 0116L.

PHYS 2212 Circuit Analysis and Analog Systems**3 Credits****Corequisite:** PHYS 2212L.**Prerequisite:** 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. Previously PS 0212.

PHYS 2212L Circuit Analysis and Analog Systems Lab**1 Credit****Fee:** \$120 Science Lab Fee**Corequisite:** 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. Previously PS 0212L.

PHYS 2226 Classical Mechanics**3 Credits****Prerequisite:** 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 PS 0226.

PHYS 2255 Introduction to Astrophysics**3 Credits****Prerequisite:** 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. Previously PS 0255.

PHYS 2260 Introduction to Biomedical Optics**3 Credits****Prerequisites:** 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. Previously PS 0260.

PHYS 2265 Introduction to Geophysical Fluid Dynamics**3 Credits****Prerequisite:** 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:** 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. Previously PS 0285.

PHYS 2285L Modern Experimental Methods Lab**2 Credits****Fee:** \$120 Science Lab Fee**Prerequisite:** 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. Previously PS 0204L.

PHYS 2286 Modern Physics II: Applications of Quanta and Relativity**3 Credits****Prerequisite:** 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:** 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:** 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. Previously PS 0215.

PHYS 3222 Modern Optics**3 Credits****Corequisite:** PHYS 3222L.**Prerequisite:** 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. Previously PS 0222.

PHYS 3222L Modern Optics Lab**1 Credit****Fee:** \$120 Science Lab Fee**Corequisite:** 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. Previously PS 0206L.

PHYS 3241 Thermal and Statistical Physics**3 Credits****Prerequisite:** 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. Previously PS 0241.

PHYS 3271 Electricity and Magnetism**3 Credits****Prerequisites:** 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. Previously PS 0271.

PHYS 3324 Math Methods in Physics Math Methods in Physics**3 Credits**

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:** \$120 Science Lab Fee**Prerequisite:** 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 expected to take more responsibility for the planning and execution of their experiments than in previous classes.

PHYS 3386 Quantum Physics**3 Credits****Prerequisites:** MATH 3332, PHYS 2226, PHYS 2285.

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. Previously PS 0386.

PHYS 3388 Elementary Particles and Nuclear Physics**3 Credits****Prerequisite:** 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. Previously PS 0388.

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. Previously PS 0390.

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 or 2 Credits**

This course provides opportunities to physics majors in their junior year, and to sophomores by permission of the department Chair, to pursue independent studies in selected areas of physics, under the mentorship of a faculty member. The course aims to guide students in using the methods of scientific inquiry to explore subjects in an area of mutual interest to the student and teacher. In the process, students will get personal attention and hands-on experience, and will develop further their analytical and experimental skills. Previously PS 0399.

PHYS 4998 Theoretical/Experimental Capstone**1-4 Credits****Attributes:** MWID Magis Core: Writing in the Discipline**Prerequisite:** 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. Previously PS 0391.

PHYS 4999 Theoretical/Experimental Capstone**1-4 Credits****Attributes:** MWID Magis Core: Writing in the Discipline**Prerequisite:** 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. Previously PS 0392.

Politics (POLI)

POLI 1101 Introduction to American Politics**3 Credits****Attributes:** ASGW American Studies: Gateway, ASPO American Studies:

Politics, PMAP Politics Major: American Politics

Students examine the American political system: 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. Previously PO 0101.

POLI 1102 Introduction to Comparative Politics**3 Credits****Attributes:** INEL International Studies Elective, PMCP 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. Previously PO 0102.

POLI 1103 Introduction to Political Ideas That Shape the World**3 Credits****Attributes:** PMPT Politics Major: Political Theory

This course introduces students to some of the most important ideas in political theory. It analyzes the Western political theories of Thomas Hobbes, Jean-Jacques Rousseau, John Locke, J.S. Mill, Karl Marx, and others, and compares and contrasts them to a variety of communitarian, socialist, and anarchist political theories. Previously PO 0103.

POLI 1104 Introduction to International Relations**3 Credits****Attributes:** HACA Humanitarian Action Minor Context Course, PJST Peace and Justice Studies, PMIR Politics Major: International Relations

This course introduces students to important concepts, frameworks, events, and theories in International Relations and provides the tools need to improve their understanding of global politics both historically and today. The course familiarizes students with conceptual tools that can help them analyze, understand and address a variety of current international issues and policy challenges. Previously PO 0104.

POLI 2102 City Politics**3 Credits****Attributes:** ASPO American Studies: Politics, ASTH American Studies

Theme Course, PACG Public Administration City Government, PMAP Politics Major: American Politics

This course examines structures and processes of urban politics and considers the major participants and policy areas of urban political processes. It sets the evolution of urban areas in historical perspective, discusses major contemporary problems, and analyzes alternative solutions. Previously PO 0202.

POLI 2103 Public Administration**3 Credits**

Attributes: ASPO American Studies: Politics, ASTH American Studies Theme Course, PMAP 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 examine 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. Previously PO 0203.

POLI 2104 American Presidency**3 Credits**

Attributes: ASGW American Studies: Gateway, ASPO American Studies: Politics, ASUP American Studies Upper Level, PMAP 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. Previously PO 0204.

POLI 2105 The American Congress**3 Credits**

Attributes: ASPO American Studies: Politics, ASUP American Studies Upper Level, PMAP 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. Previously PO 0205.

POLI 2106 Supreme Court I**3 Credits**

Attributes: ASPO American Studies: Politics, ASUP American Studies Upper Level, PMAP 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. Previously PO 0206.

POLI 2107 Supreme Court II**3 Credits**

Attributes: ASPO American Studies: Politics, ASUP American Studies Upper Level, PMAP 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. Previously PO 0207.

POLI 2108 Political Parties and Interest Groups**3 Credits**

Attributes: ASPO American Studies: Politics, ASUP American Studies Upper Level, BSCC Black Studies Component Course, BSSS Black Studies: Social and Behavioral Sciences, PMAP Politics Major: American Politics

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? Previously PO 0208.

POLI 2109 American Public Policy**3 Credits**

Attributes: ASPO American Studies: Politics, ASUP American Studies Upper Level, PACG Public Administration City Government, PMAP Politics Major: American Politics

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. Previously PO 0209.

POLI 2111 Media and Politics**3 Credits**

Attributes: ASPO American Studies: Politics, PMAP Politics Major: American Politics, SPEL 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. Previously PO 0211.

POLI 2112 United States Environmental Politics and Policy**3 Credits**

Attributes: ASPO American Studies: Politics, ASUP American Studies Upper Level, EVME Environmental Studies Major Elective, EVPE Environmental Studies Elective, EVSS Environmental Studies: Social Science, PAEP Public Administration Environment Policy, PMAP Politics Major: American Politics

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. Previously PO 0212.

POLI 2113 State and Local Government**3 Credits****Attributes:** PMAP 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. Previously PO 0213.

POLI 2114 Public Opinion and Polling**3 Credits****Attributes:** PMAP 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. Previously PO 0214.

POLI 2115 Campaigns and Elections**3 Credits****Attributes:** PMAP 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. Previously PO 0215.

POLI 2120 Politics of Care**3 Credits****Attributes:** ASGW American Studies: Gateway, HSSS Health Studies: Social Science, PJST Peace and Justice Studies, PMAP 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, effective 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****Attributes:** PMAP 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****Attributes:** PMCP 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****Attributes:** PMCP 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 EU and national European approaches to addressing societal problems. Previously PO 0250.

POLI 2251 Islam and Muslim Politics**3 Credits****Attributes:** INEL International Studies Elective, IWSS Islamic World Studies: Social Sciences, PMCP Politics Major: Comparative Politics, RECS Russian, Eastern European, and Central Asian Studies

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. Previously PO 0251.

POLI 2252 Politics in Africa**3 Credits****Attributes:** BSFC Black Studies Focus Course, BSSS Black Studies: Social and Behavioral Sciences, HACA Humanitarian Action Minor Context Course, INEL International Studies Elective, PMCP 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. Previously PO 0252.

POLI 2253 Latin American Politics**3 Credits****Attributes:** DEIE Diversity, Equality, and Inclusion Elective, INEL International Studies Elective, LCEL LACS Minor: Elective, PMCP 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. Previously PO 0253.

POLI 2255 Middle East Politics**3 Credits**

Attributes: INEL International Studies Elective, IWSS Islamic World Studies: Social Sciences, PJST Peace and Justice Studies, PMCP 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. Previously PO 0255.

POLI 2256 Asian Politics**3 Credits**

Attributes: ANMC Asian Studies Elective, PMCP 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. Previously PO 0256.

POLI 2257 Northern Ireland: Politics of War and Peace**3 Credits**

Attributes: CAOT Catholic Studies: Non-Religious Studies, INEL International Studies Elective, PJST Peace and Justice Studies, PMCP Politics Major: Comparative Politics

This course focuses on "the Troubles" in Northern Ireland from 1969 to the present beginning with historical background that emphasizes England's role from the 17th century through the present. It examines the 20th century conflict primarily as a national liberation struggle against a sectarian regime in the North supported by England. The course follows a chronological format starting with the civil rights marches in the late 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. Previously PO 0257.

POLI 2258 Political Violence**3 Credits**

Attributes: HACA Humanitarian Action Minor Context Course, INEL International Studies Elective, PMCP 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. Previously PO 0258.

POLI 2259 The Development Gap**3 Credits**

Attributes: INEL International Studies Elective, PJST Peace and Justice Studies, PMCP 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. Previously PO 0259.

POLI 2260 Politics and Business in China**3 Credits**

Attributes: ANMC Asian Studies Elective, INEL International Studies Elective, PMCP 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**

Attributes: MSID Magis Core: Interdisciplinary, PMCP Politics Major: Comparative Politics

Almost half of the world population lives under authoritarian or totalitarian regimes. Moreover, several democracies around the world are far from consolidated and exist at risk of democratic breakdowns. This 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. Previously PO 0261.

POLI 2331 Introduction to Peace and Justice**3 Credits**

Attributes: ASGW American Studies: Gateway, ASPO American Studies: Politics, CAOT Catholic Studies: Non-Religious Studies, EDCG Educational Studies Cognate, INEL International Studies Elective, PJST Peace and Justice Studies, PMPT 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. Previously PO 0201.

POLI 2332 Utopian Politics**3 Credits**

Attributes: PMPT 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. Previously PO 0232.

POLI 2333 American Political Thought**3 Credits**

Attributes: ASGW American Studies: Gateway, ASPO American Studies: Politics, PMPT 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. Previously PO 0233.

POLI 2334 Sex, Sexuality, and Gender**3 Credits**

Attributes: ASGW American Studies: Gateway, ASPO American Studies: Politics, PJST Peace and Justice Studies, PMPT Politics Major: Political Theory, SPEL Sports Media Elective, WSGF 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. Previously PO 0234.

POLI 2335 Modern Political Ideologies**3 Credits**

Attributes: PJST Peace and Justice Studies, PMPT Politics Major: Political Theory

This course primarily examines the political belief systems in the United States including conservatism, liberalism, democratic socialism, and 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. Previously PO 0235.

POLI 2336 Politics of Race, Class, and Gender**3 Credits**

Attributes: ASGW American Studies: Gateway, ASPO American Studies: Politics, BSCC Black Studies Component Course, BSSS Black Studies: Social and Behavioral Sciences, DEIE Diversity, Equality, and Inclusion Elective, PJST Peace and Justice Studies, PMPT Politics Major: Political Theory, SPEL Sports Media Elective, WSGF Women, Gender, and Sexuality Studies: Gender Focused

This course investigates how race, class, and gender function in American political culture. Students explore how the theoretical ideas of central thinkers such as Thomas Jefferson, Martin Luther King Jr., and Susan B. Anthony shape the political practices of the people who express themselves in songs, speeches, art, and music. The focus on race, class, and gender enables students to engage with historically challenging questions about equality, freedom, individualism, republicanism, liberalism, and American exceptionalism from alternative perspectives. The course does so by assessing whether or not the contemporary Hip Hop movement can overcome the barriers of race, class, and gender. Previously PO 0236.

POLI 2471 United Nations Security Council Crisis Simulation**3 Credits**

Attributes: HACA Humanitarian Action Minor Context Course, PMIR 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. Previously PO 0271.

POLI 2472 Politics of Humanitarian Action**3 Credits**

Attributes: HAFD Humanitarian Action Foundation Course, INEL International Studies Elective, PADE Public Administration Disaster and Emergency Management, PJST Peace and Justice Studies, PMIR Politics Major: International Relations

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. Previously PO 0272.

POLI 2473 Humanitarian and Disaster Response Field Training**3 Credits**

Attributes: HASM Humanitarian Action Minor Skills/Method Course, PADE Public Administration Disaster and Emergency Management, PMIR Politics Major: International Relations

This course offers training in humanitarian action and disaster response in collaboration with local emergency response agencies and related regional, national, and global networks. Students acquire training and certification in humanitarian standards, become registered volunteers with the American Red Cross, learn from local FEMA Community Emergency Response Teams, and participate in immersion experiences and simulations on international humanitarian crises. The course contextualizes aid work through a range of critical, ethical and moral theories. The course first introduces competing paradigms, second explores principles and field training, and third concludes with intersectionality and other critical perspectives on responding to needs. Previously PO 0273.

POLI 2474 International Environmental Policy**3 Credits**

Attributes: EVME Environmental Studies Major Elective, EVPE Environmental Studies Elective, EVSS Environmental Studies: Social Science, INEL International Studies Elective, PAEP Public Administration Environment Policy, PMIR Politics Major: International Relations

This course examines important issues in the practice and study of international environmental policy. The course consists of four interrelated sections designed to provide the factual knowledge and conceptual frameworks required for working in this field: the process and difficulty of creating effective International environmental policy; factors that assist effective policy; history, trends, and actors; and key current issues including climate change, biodiversity, toxic pollution, trade and the environment, sustainable development, and environment and security, among others. Previously PO 0274.

POLI 2475 Climate Change: International Policy and Politics 3 Credits

Attributes: EVME Environmental Studies Major Elective, EVPE Environmental Studies Elective, HACA Humanitarian Action Minor Context Course, MSID Magis Core: Interdisciplinary, PMIR 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. Previously PO 0275.

POLI 2476 United States Foreign Policy 3 Credits

Attributes: ASGW American Studies: Gateway, ASPO American Studies: Politics, INEL International Studies Elective, PMIR Politics Major: International Relations

How is foreign policy made in the United States? This course examines the impact of domestic and international actors and processes in the formation and conduct of United States foreign policy. It also provides 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. Previously PO 0276.

POLI 2477 Politics of the Global Economy 3 Credits

Attributes: INEL International Studies Elective, PMCP 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. Previously PO 0277.

POLI 2478 The Politics of International Law 3 Credits

Attributes: HACA Humanitarian Action Minor Context Course, INEL International Studies Elective, PJST Peace and Justice Studies, PMIR 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. Previously PO 0278.

POLI 2479 Threats to Global Security in the 21st Century 3 Credits

Attributes: HACA Humanitarian Action Minor Context Course, INEL International Studies Elective, PMIR 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. Previously PO 0279.

POLI 2480 Border Politics 3 Credits

Attributes: HACA Humanitarian Action Minor Context Course, INEL International Studies Elective, PJST Peace and Justice Studies, PMIR 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. Previously PO 0280.

POLI 2481 International Human Rights 3 Credits

Attributes: HACA Humanitarian Action Minor Context Course, PJST Peace and Justice Studies, PMIR 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. Previously PO 0281.

POLI 2501 Research Methods 3 Credits

Attributes: PAPS Public Administration Research Methods/Data Analysis, PMAP Politics Major: American Politics

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. Previously PO 0295.

POLI 2900 Special Topics (Shell)**3 Credits**

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. Previously PO 0299.

POLI 3980 Internship**3 or 4 Credits**

Prerequisites: 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 of 3.0 or higher. Enrollment by departmental permission only. Previously PO 0298.

POLI 3981 State Legislature Internship**6 Credits**

Prerequisites: 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. Previously PO 0296.

POLI 3982 Washington Semester Internship**3-9 Credits**

Prerequisites: 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. Previously PO 0297.

POLI 3990 Independent Study**1-4 Credits**

Prerequisites: 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. Previously PO 0398.

POLI 3997 Independent Research**1-4 Credits**

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**

Attributes: ASPO American Studies: Politics, ASUP American Studies Upper Level, MSID Magis Core: Interdisciplinary, PMAP Politics Major: American Politics, WSGF 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. Previously PO 0301.

POLI 4302 Seminar on Feminist Theory**3 Credits**

Attributes: ASPO American Studies: Politics, ASUP American Studies Upper Level, PJST Peace and Justice Studies, PMPT Politics Major: Political Theory, WSGF 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. Previously PO 0302.

POLI 4303 Gender, War, and Peace**3 Credits**

Attributes: HACA Humanitarian Action Minor Context Course, INEL International Studies Elective, PMIR Politics Major: International Relations, WSGF Women, Gender, and Sexuality Studies: Gender Focused

This course examines the complexities of the gendered impact of war on men, women, families and children. Students learn about the gendered dimensions of war institutions, social structures and narratives of war. They explore the topic especially from the voices and perspectives of women in war zones and post-conflict settings around the world, including historical memories. Students learn how aspects of globalization and conditions of structural violence make women extremely vulnerable as societies slide toward war. Crosslisted with INST 4303. Previously PO 0303.

POLI 4304 Seminar on Global Environmental Politics**3 Credits**

Attributes: EVME Environmental Studies Major Elective, EVPE

Environmental Studies Elective, MWID Magis Core: Writing in the Discipline, PMIR Politics Major: International Relations

The causes, consequences, and potential solutions to environmental problems are increasingly important subjects in global politics. This seminar explores critical, current issues in the theory and practice of global environmental politics. Readings and class discussion examine important new debates, including those on: 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. Previously PO 0304.

POLI 4305 Seminar on the Middle East**3 Credits**

Attributes: IWSS Islamic World Studies: Social Sciences, PMCP 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. Previously PO 0305.

POLI 4306 Democracy and Dictatorship**3 Credits****Attributes:** PMCP 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****Attributes:** INEL International Studies Elective

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****Attributes:** PMAP 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****Attributes:** PMAP Politics Major: American Politics, PMCP Politics Major: Comparative Politics, PMPT 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 4314 International Perspectives on International Politics: Moving Beyond Western Paradigms**3 Credits****Attributes:** INEL International Studies Elective, PMIR 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:** 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. Previously PO 0300.

Portuguese (PORT)

PORT 1110 Elementary Brazilian Portuguese I**3 Credits**

Designed for students with no prior experience with Portuguese or whose placement scores are in the range for this course level. This course, the first in a two-semester sequence, is designed to present the student with the essentials of pronunciation, structure, and usage, allowing students to acquire the skills of listening, speaking, reading, and writing. Cultures are explored through a variety of media. The course will broaden the students' understanding of the cultures of the different countries where Portuguese is spoken, especially Brazil. Previously PG 0110.

PORT 1111 Elementary Brazilian Portuguese II**3 Credits****Attributes:** LCEL LACS Minor: Elective**Prerequisite:** 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. Previously PG 0111.

PORT 2210 Intermediate Brazilian Portuguese I**3 Credits****Attributes:** LCEL LACS Minor: Elective**Prerequisite:** 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. Previously PG 0210.

PORT 2211 Intermediate Brazilian Portuguese II**3 Credits****Attributes:** LCEL LACS Minor: Elective**Prerequisite:** 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. Previously PG 0211.

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? Previously PY 0101.

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. Psychology majors and students who have taken PSYC 2110 or PSYC 2150 may not take this course. Previously PY 0111.

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. Previously PY 0122.

PSYC 1610 Behavioral Neuroscience**3 Credits****Attributes:** MSID 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. Previously PY 0261.

PSYC 2110 Child and Adolescent Development**3 Credits****Prerequisite:** PSYC 1010.

Using a research-oriented approach, this course focuses on the principal themes, processes, and products of human development from conception through adolescence. Students who have taken PSYC 1110 or PSYC 2150 may not take this course. Previously PY 0211.

PSYC 2120 Adult Development and Aging**3 Credits****Prerequisite:** 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. Previously PY 0215.

PSYC 2130 Cross-Cultural Perspectives on Lifespan Development**3 Credits****Prerequisite:** 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? Previously PY 0217.

PSYC 2150 Child and Adolescent Development with Lab**4 Credits****Prerequisite:** 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 1110 or PSYC 2110 may not take this course. Previously PY 0212.

PSYC 2160 Adolescent Development**3 Credits**

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****Attributes:** DEIE Diversity, Equality, and Inclusion Elective**Prerequisite:** 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. Students who have taken PSYC 1210 may not take this course. Previously PY 0221.

PSYC 2220 Stereotyping, Prejudice, and Discrimination**3 Credits****Attributes:** DEIE Diversity, Equality, and Inclusion Elective, PJST Peace and Justice Studies**Prerequisite:** 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. Previously PY 0222.

PSYC 2230 Personality Psychology**3 Credits****Prerequisite:** 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. Previously PY 0232.

PSYC 2310 Psychopathology and Clinical Science**3 Credits****Attributes:** HSSS Health Studies: Social Science**Prerequisite:** 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. Previously PY 0231.

PSYC 2330 Gender and Mental Health**3 Credits****Attributes:** WSGF Women, Gender, and Sexuality Studies: Gender Focused**Prerequisite:** 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. Previously PY 0233.

PSYC 2340 Theories in Psychotherapy**3 Credits****Prerequisite:** PSYC 1310 or 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. Previously PY 0234.

PSYC 2360 Human Neuropsychology**3 Credits****Attributes:** HSST Health Studies: Science and Technology**Prerequisites:** PSYC 1010 or PSYC 1610.

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. Previously PY 0236.

PSYC 2370 Community Mental Health**3 Credits****Attributes:** HSSS Health Studies: Social Science**Prerequisite:** 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. Previously PY 0237.

PSYC 2390 Psychology of Diversity**3 Credits****Prerequisite:** PSYC 1010.

Diversity is an important and enriching factor in all our lives. This course will examine various aspects of diversity (e.g., discrimination, stereotypes, racism, sexism, sexuality, gender identity, obesity, ageism, stigma) and how these aspects interact with each other. The relationships between these aspects and mental health will also be discussed. After developing an initial understanding of issues, we will discuss methods of responding to social inequality and explore areas of specific interests of students through student-led presentations and discussions. Previously PY 0239.

PSYC 2510 Cognitive Psychology**3 Credits****Prerequisite:** PSYC 1010 or PSYC 1610.

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. Previously PY 0251.

PSYC 2520 Learning and Applied Behavior Analysis 3 Credits**Prerequisite:** PSYC 1010 or PSYC 1610.

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. Previously PY 0252.

PSYC 2540 Psycholinguistics 3 Credits**Attributes:** MSID Magis Core: Interdisciplinary**Prerequisite:** 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. Previously PY 0254.

PSYC 2620 Sensation and Perception 3 Credits**Prerequisite:** PSYC 1010 or PSYC 1610.

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. Previously PY 0262.

PSYC 2740 Drugs, Brain and Behavior 3 Credits**Attributes:** HSSS Health Studies: Social Science, MSID Magis Core: Interdisciplinary**Prerequisite:** PSYC 1010 or PSYC 1610.

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. Previously PY 0274.

PSYC 2745L 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 2810 Statistics for the Behavioral Sciences 4 Credits**Attributes:** EVAP Environmental Studies: Applied Professional Skills**Corequisite:** PSYC 2810L.**Prerequisite:** PSYC 1010 or PSYC 1610.

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. Previously PY 0201.

PSYC 2810L Statistics Lab 0 Credits**Attributes:** EVAP Environmental Studies: Applied Professional Skills**Corequisite:** PSYC 2810.**PSYC 2820 Research Methods in Psychology 4 Credits****Attributes:** MWID Magis Core: Writing in the Discipline**Prerequisite:** 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. Previously PY 0202.

PSYC 2830 Research Methods in Behavioral Neuroscience 4 Credits**Attributes:** MWID Magis Core: Writing in the Discipline**Prerequisite:** 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:** 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. Previously PY 0281.

PSYC 2950 Supervised Research: Psychology 1 Credit

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

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 Psychological Testing 3 Credits

Prerequisites: 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. Previously PY 0238.

PSYC 3610 Cognitive Neuroscience 3 Credits

Prerequisite: PSYC 1610.

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: BIOL 1173 or PSYC 1610.

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. Previously PY 0272.

PSYC 3740 Pharmacology and Mental Disorders 3 Credits

Attributes: HSST Health Studies: Science and Technology

Prerequisites: PSYC 1610 or PSYC 2740; or the approval of the instructor, must have taken at least one 2000-level PSYC course.

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 3950 Supervised Research: Psychology 3 Credits

Prerequisite: 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 (e.g., independent research). Student researchers are expected to spend a minimum of 10 hours per week in their faculty mentor's lab. Enrollment by permission only. Previously PY 0295.

PSYC 3955 Supervised Research: Behavioral Neuroscience 3 Credits

Prerequisite: 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 (e.g., independent research). Student researchers are expected to spend a minimum of 10 hours per week in their faculty mentor's lab. Enrollment by permission only. Previously PY 0295.

PSYC 3980 Psychology Teaching Practicum 3 Credits

Prerequisite: 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. Previously PY 0291.

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. Previously PY 0321.

PSYC 4220 Senior Seminar: Health Psychology 3 Credits

Attributes: HSSS 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. Previously PY 0322.

PSYC 4310 Senior Seminar: Clinical Child and Adolescent Psychology **3 Credits****Prerequisites:** 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. Previously PY 0331.

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. Previously PY 0332.

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. Previously PY 0351.

PSYC 4610 Senior Seminar: Current Issues in Behavioral Neuroscience **3 Credits****Prerequisite:** PSYC 1610.

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. Previously PY 0361.

PSYC 4650 Neuroanatomy and Behavior **3 Credits****Corequisite:** PSYC 4650L.**Prerequisite:** 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. Previously PY 0365.

PSYC 4650L Neuroanatomy and Behavior Lab **1 Credit****Corequisite:** PSYC 4650.**PSYC 4710 Senior Seminar in Neuroscience of Human Memory** **3 Credits****Prerequisites:** Open to junior and senior psychology and behavioral neuroscience majors or by permission.

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.

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. Previously PY 0381.

PSYC 4950 Research Thesis in Psychology **1-4 Credits**

This course involves a limited number of upper-division students (usually seniors) in all aspects of an advanced research project. Students must obtain the consent of the professor with whom they will work prior to registering for this course. Frequently a research proposal is required prior to acceptance into this course; early planning is essential. Enrollment by permission only. Previously PY 0395.

PSYC 4955 Research Thesis in Behavioral Neuroscience **1-4 Credits**

This course involves a limited number of upper-division students (usually seniors) in all aspects of an advanced research project. Students must obtain the consent of the professor with whom they will work prior to registering for this course. Frequently a research proposal is required prior to acceptance into this course; early planning is essential. Enrollment by permission only. Previously PY 0395.

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. Previously PY 0391.

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. Previously PY 0392.

PSYC 5110 Introduction to Industrial and Organizational Psychology**3 Credits**

This course introduces the application of psychological concepts, principles, and methods to process issues and problems in the work environment. Topics include personnel selection, training and development, work motivation, job satisfaction and effectiveness, work design, and organizational theory. For students interested in the five-year integrated bachelor's and master's degree in Industrial/Organizational Psychology, permission of the instructor is required. Previously PY 0420.

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 5230 Psychology of Personality**3 Credits**

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. Additionally, throughout the course we will emphasize potential applications of personality science in business and industry. Previously PY 0435.

PSYC 5240 Organizational Development**3 Credits****Prerequisite:** PSYC 5110.

This course explores and analyzes the various methods and techniques for effective organizational development in contemporary organizations. The course focuses on models, case studies, and candidate examination of organizations with which they are affiliated. Candidates identify and study key success factors such as organizational culture, leadership, and history. Previously PY 0406.

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 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. Previously PY 0433.

PSYC 5820 Research in Psychology**3 Credits****Prerequisite:** PSYC 5810.

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. Previously PY 0571.

PSYC 6230 Program Evaluation**3 Credits****Prerequisites:** PSYC 5810, 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. Previously PY 0475.

PSYC 6240 Consulting Theory and Practice**3 Credits**

This course is designed to assist candidates in developing an understanding of and skills in the practice of consultation in both internal and external roles. The core psychological principles and techniques apply equally well in business, non-profit, and educational settings. The course focuses upon the psychological concepts, models, and principles for effective consultation. A variety of contemporary models are examined. Candidates are expected to develop insight into their own consultation approaches and their strengths and needs. Previously PY 0480.

PSYC 6260 Development and Training Programs**3 Credits**

Prerequisite: PSYC 5110.

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. Previously PY 0545.

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 6510 Fundamentals of Survey Design**3 Credits**

Prerequisite: PSYC 2810 or PSYC 5810.

This course covers the important basics of measurement and the fundamentals of un-normed survey and questionnaire design. It also will provide training in entry-level survey/questionnaire skills for those who may be required to develop simple surveys/questionnaires in their work. Previously PY 0501.

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. Previously PY 0485.

PSYC 6530 Effective Interviewing**3 Credits**

This course trains individuals whose work requires a high skill level in communication. The course emphasizes defining the goals of the interview and the best means for achieving these goals, attending to overt and covert language and non-language messages, and dealing with the emotional dimensions of the interview. Students learn and experiment with a variety of interviews in different contexts. Previously PY 0471.

PSYC 6850 Field Work in Applied Psychology**3 Credits**

Prerequisites: Completion of 21 credits in psychology, including PSYC 5110, PSYC 5230, PSYC 5240, PSYC 5810, PSYC 5820, PSYC 6260; 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. Previously PY 0578.

PSYC 6999 Comprehensive Exam in Applied Psychology**0 Credits**

The comprehensive examination in applied psychology requires candidates to demonstrate understanding and mastery of a broad body of relevant knowledge in psychology, as well as the ability to synthesize this knowledge in the creation of sophisticated essays. Candidates are eligible to take the master's comprehensive examination after successful completion of 24 credits, 18 of which must be specifically in psychology. Cumulative GPA of 3.0 required to sit for the exam. Previously PY 0098.

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. Previously PY 0430.

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. Previously PY 0436.

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. Previously PY 0437.

PSYG 5438 Treatment Models for School-Aged Youth 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. Previously PY 0438.

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 child and adolescent development. 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. Previously PY 0446.

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. Previously PY 0444.

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. Previously PY 0401.

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
Prerequisites: 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. Previously PY 0449.

PSYG 6534 Theories of Learning 3 Credits

This course considers, in detail, the conditions of human learning found in the principal schools of psychology on the contemporary scene. Candidates investigate other theories for individual reports. Crosslisted with EDUC 6534. Previously PY 0534.

PSYG 6535 Collaborative Consultation 3 Credits

Prerequisites: 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. Previously PY 0535.

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. Previously PY 0537.

PSYG 6538 Psychoeducational Assessment II: Standardized**Approaches****3 Credits****Fee:** \$85 SEHD Lab Fee**Corequisite:** PSYG 6540.**Prerequisite:** Completion of all MA degree requirements.

For school psychology candidates, this course is designed to advance their knowledge and skills of standardized assessment instruments commonly used by school psychologists in practice. This course will include review of psychometric constructs relevant to the measurement of intelligence and achievement, review of cross-battery assessment, (c) practice in the administration and scoring of standardized measures of intelligence, achievement and behavior, and (d) practice in the interpretation of test scores, (e) practice in the preparation of written reports summarizing test results, (f) exploration of multicultural issues related to assessment, and (g) review of the application of intelligence testing in school and clinical settings. Previously PY 0538.

PSYG 6540 Psychoeducational Assessment III: Clinical**Approaches****3 Credits****Fee:** \$85 SEHD Lab Fee**Corequisite:** PSYG 6538.**Prerequisite:** Completion of all MA degree requirements.

This course provides an introduction to clinical approaches to assessment for candidates in the school psychology program. A variety of assessment techniques will be presented and critically reviewed, including clinical interview, clinical observation, and projective techniques commonly used by school psychologists to assess students in school settings. Candidates will gain practice in the administration and interpretation of clinical assessments as well as basic report-writing. Previously PY 0540.

PSYG 6544 Psychoeducational Assessment IV: Integrated Assessment**3 Credits****Prerequisites:** 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. Previously PY 0544.

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 for School-Aged Youth 3 Credits**Prerequisites:** PSYG 5430, PSYG 5438, PSYG 5446.

This course provides school psychology, school counselor, and social work candidates with a first exposure to psychotherapeutic techniques. Topics include the purposes and rationale for such techniques, selection of appropriate methodologies, ethical considerations, and practice skills. Previously PY 0548.

PSYG 6951 Practicum I: Assessment and Group Process 3 Credits**Corequisite:** 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 provides students with an in-class opportunity to experientially learn group process from the perspective of a group member, as well as group facilitator. Candidates also learn how to develop lesson plans and conduct whole class lessons. Enrollment by permission only. Previously PY 0576.

PSYG 6952 Practicum II: Counseling and Group Process 3 Credits**Prerequisite:** 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. Previously PY 0577.

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. Previously PY 0598.

PSYG 6981P Internship in School Psychology I 3 Credits

See PSYG 6981.

PSYG 6982 Internship in School Psychology II 3 Credits**Prerequisite:** 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. Previously PY 0599.

PSYG 6982P Internship in School Psychology II 3 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. Previously PY 0595.

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. Previously PY 0099.

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, function of public administration and policy making at the federal, state at the local levels. It will examine the theories and concepts of bureaucracy, as well as the formulation and implementation of policy. Among the topics covered are organization theory, federalism and regulation, ethics and accountability, decision-making, and leadership and budgeting. Case studies will be used to facilitate class lectures and discussions. Previously MPA 0410.

PUAD 5410 Financial Management and Budgeting 3 Credits**Attributes:** PACG 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. Previously MPA 0400.

PUAD 5415 Human Resource Management 3 Credits

This course is designed to acquaint students to 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. Previously MPA 0415.

PUAD 5420 Research Methods 3 Credits

This course will introduce students to research methodology and hypothesis testing. The first part of the course will focus on understanding basic research techniques in the social sciences, including data collection, data analysis and reporting of results. The second half of the course will emphasize methodology. Students will be required to conduct a major research project in a laboratory setting and produce a finished report. Students must have taken a prior statistical methods class. Previously MPA 0405.

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? Previously MPA 0420.

PUAD 5430 Economics of the Nonprofit Sector**3 Credits**

Attributes: PANM 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. Previously MPA 0430.

PUAD 5435 Grant Writing**3 Credits**

Attributes: PAWR 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. Previously MPA 0425.

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. Previously MPA 0450.

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. Previously MPA 0451.

PUAD 5450 Dynamics and Challenges of Administrative Corruption**3 Credits**

Corruption is a reality in the public sphere, both in the nonprofit and governmental sectors. The various forms of corruption, from simple gratuities to outright subversion of the political process will be examined. The modern democratic state has necessarily instituted controls that suppress corruption, but the complexity of governance may enable the undermining of those controls. Public administration students will likely encounter numerous instances of corrupt practices in their careers, and understanding corruption will enable students to respond professionally when confronted by malfeasance. This course will also cover institutional structures that either encourage or discourage corruption in other nations. Previously MPA 0470.

PUAD 5455 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. Previously MPA 0480.

PUAD 5460 Introduction to Public Safety Administration**3 Credits**

This course provides an introduction and foundation for critical issues related to homeland security and emergency management. Managers in public safety agencies deal with several challenges arising from environmental and natural disasters to man-made disasters. Managers in such institutions are responsible for the development and administration of mitigation, preparedness, response, and recovery programs that arise with disasters. Public managers also need to consider the issues related to social, economic, and political vulnerabilities, community resilience, and ethical responses to risk managements. The course addresses these issues within the context of disaster and emergency management, homeland security, criminal justice, and fire/emergency management.

PUAD 5465 Emergency Preparedness, Response, and Recovery**3 Credits**

This course provides an introduction to policy, planning, and management of the response to disasters and emergencies, both natural and man-made. It explores the full spectrum of emergency planning: mitigation, preparedness, response and recovery; profiles infrastructure preparedness, techniques used to develop strategic plans, on-site crisis management; and addresses the critical need for accessible and accurate information and communication.

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 6980 Internship**1-6 Credits**

Students are required to complete six credits of internship at a position relevant to their interests. Those in the city/state government track will be assigned to internships at local government and state offices, while those in the nonprofit track will be offered relevant positions at local not-for-profits. This requirement may be waived for those who already have experience working for a nonprofit or a government agency. Previously MPA 0500.

PUAD 6999 Capstone Experience**3 Credits**

This capstone experience is intended to complement the student's coursework and complete the chosen program of study. It is undertaken with the close supervision of a faculty advisor and can take the form of a specially designed course, independent study, or a master's thesis. Previously MPA 0510.

Public Health (PUBH)

PUBH 1101 Public Health and Social Justice**3 Credits**

Attributes: DEIE Diversity, Equality, and Inclusion Elective, PAPH 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. Previously PB 0101.

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**

Attributes: PADE Public Administration Disaster and Emergency Management, PAPH Public Administration Public Health

Prerequisite: 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**

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: 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. Previously PB 0216.

PUBH 2217 Biostatistics for Health Research**3 Credits**

Attributes: HSST Health Studies: Science and Technology

Prerequisites: 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. Previously PB 0217.

PUBH 2240 Introduction to Global Public Health**3 Credits**

Attributes: HACA Humanitarian Action Minor Context Course, HSTE Health Studies: Traditions, Delivery, and Ethics, LCEL LACS Minor. Elective, PADE Public Administration Disaster and Emergency Management, PAPH 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. Previously PB 0240.

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. Previously PB 0250.

PUBH 3303 Public Health Program Planning and Evaluation**3 Credits**

Attributes: PAPH Public Administration Public Health

Prerequisites: 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). Previously PB 0303.

PUBH 3980 Public Health Internship**1-5 Credits****Prerequisites:** 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. Previously PB 0315.

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:** 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. Previously PB 0301.

PUBH 4305 Public Health Seminar**3 Credits****Prerequisite:** 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. Previously PB 0305.

PUBH 4999 Public Health Capstone**3 Credits****Prerequisite:** 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. Previously PB 0310.

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****Prerequisite:** NURS 7611.

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**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.

PUBH 6951 Public Health Fieldwork Experience and Leadership/ Professional Development 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 a semester-long public health leadership and professional development 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****Prerequisites:** NURS 7601, PUBH 7602, PUBH 5303.

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:** 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 7602 Advanced Epidemiology and Biostatistics 3 Credits

Prerequisite: 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 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 Developmental Literacy I: Fundamentals of Reading and Language Development 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 decoding strand reading skills (phonological awareness, alphabetic principle, fluency), as well as aspects of cognition and behavior that affect reading and writing. Candidates learn how to administer, score, and interpret universal screening and informal diagnostic measures in the areas of phonological awareness, alphabetic principle, and fluency for the purposes of determining the most appropriate starting point for instruction and planning differentiated instructional groups. Candidates also learn how to select and deliver varied research-based instructional strategies and routines to develop students' foundational reading skills in the areas of phonological awareness, alphabetic principle, and fluency. Crosslisted with SPED 5486. Previously RLD 0486.

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. Previously RLD 0487.

RLDV 5488 Content Area Literacy Strategies 3 Credits

This course introduces candidates to content area and disciplinary literacy reading practices at the elementary, middle, and high school levels. Strategies to facilitate comprehension of narrative and expository text structures, including strategies that address the reading-writing connection, are introduced. Candidates also learn about adolescent literacy development, achievement, and engagement, and how factors related to cultural, linguistic, and cognitive diversity impact students' comprehension of texts. Previously RLD 0488.

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 and Measurement in Reading and Language Arts Contexts 3 Credits

This course introduces candidates to the principles and practices of response to intervention approaches to the prevention and early identification and remediation of reading difficulties. Candidates learn about the essential features of Tier I, Tier II, and Tier III instruction, including common program development and delivery considerations and assessment routines. Previously RLD 0583.

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. Previously RLD 0584.

RLDV 5585 Writing Components and Processes in the Language Arts Program 3 Credits

Candidates learn how to assess students' handwriting, spelling, and writing skills, and how to teach writing across the elementary, middle, and secondary continuums, with consideration for the use of a wide range of texts and strategies designed to foster the reading-writing connection. The use of assistive technology and specialized instructional strategies and programs will be explored as a means to facilitate students' ability to construct quality writing samples. Previously RLD 0585.

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. Previously RLD 0503.

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. Previously RLD 0530.

RLDV 6575 Wilson Reading: Developmental Literacy Remediation Practices for Students in Grades 3+ **1 Credit****Fee:** \$141 SEHD Fee

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. Previously RLD 0575.

RLDV 6576 Wilson Reading: Intensive Instruction I for the Non-Responsive Reader, Steps 1-6 **3 Credits****Fee:** \$141 SEHD Fee**Corequisite:** RLDV 6577.**Prerequisite:** 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. Previously RLD 0576.

RLDV 6577 Wilson Reading: Practicum I for the Non-Responsive Reader in Grades 3+, Steps 1-6 **1.5-3 Credits****Fee:** \$141 SEHD Fee**Corequisite:** RLDV 6576.**Prerequisite:** 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. Previously RLD 0577.

RLDV 6578 Wilson Reading: Intensive Instruction II for the Non-Responsive Reader, Steps 1-6 **3 Credits****Fee:** \$141 SEHD Fee**Corequisite:** RLDV 6579.**Prerequisite:** 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. Previously RLD 0578.

RLDV 6579 Wilson Reading: Practicum II for the Non-Responsive Reader in Grades 3+, Steps 1-6 **1.5-3 Credits****Fee:** \$141 SEHD Fee**Corequisite:** RLDV 6578.**Prerequisite:** 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. Previously RLD 0579.

RLDV 6586 Diagnosis and Remediation of Reading and Language Arts Difficulties **3 Credits**

This course introduces candidates to the varied reasons why students may not be responding to the provision of intensive targeted reading and writing interventions. Candidates learn how to administer a range of formal diagnostic assessment measures to students and how to analyze findings for the purpose of informing improved intervention programming for students. This course includes a six to eight hour supervised fieldwork experience. Fingerprinting required. Previously RLD 0586.

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 Clinical Practicum: Structured Literacy **3-6 Credits****Prerequisites:** RLDV 5486, RLDV 5488, RLDV 5583, RLDV 5585, RLDV 6586.

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. Previously RLD 0587.

RLDV 6952 Clinical Practicum: Structured Literacy Applications with Peer Coaching Elements **3-6 Credits**

Prerequisite: 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. Previously RLD 0588.

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. Previously RLD 0594.

Religious Studies (RLST)

RLST 1001 Religion and the Critical Mind **3 Credits**

Attributes: RSST 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. Previously RS 0101A.

RLST 1002 Common Questions, Traditional Response **3 Credits**

Attributes: RSST 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. Previously RS 0101C.

RLST 1003 Religion in a Comparative Key **3 Credits**

Attributes: RSST 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. Previously RS 0101D.

RLST 1004 Peoples of the Book, Sacred Texts, and Their Communities **3 Credits**

Attributes: JST Judaic Studies Minor, RSST 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. Previously RS 0101E.

RLST 1060 Magic and Religion **3 Credits**

Attributes: RSST 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**

Attributes: RSST 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**

Attributes: JST Judaic Studies Minor, RSST 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. Previously RS 0100.

RLST 1111 History of the Jewish Experience **3 Credits**

Attributes: JST Judaic Studies Minor, RSST 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. Previously RS 0211.

RLST 1201 Hebrew Bible/Old Testament **3 Credits**

Attributes: JST Judaic Studies Minor, RSST 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. Previously RS 0201.

RLST 1203 Life of Jesus**3 Credits****Attributes:** RSST Religious Studies Major Track, RSTH 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****Attributes:** RSST Religious Studies Major Track, RSTH 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****Attributes:** RSST Religious Studies Major Track, RSTH 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****Attributes:** IWHU Islamic World Studies: Humanities, RSTH 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****Attributes:** CARS Catholic Studies: Religious Studies, RSST 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. Previously RS 0115.

RLST 1501 Introduction to Christian Ethics**3 Credits****Attributes:** RSTH 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****Attributes:** ASGW American Studies: Gateway, ASRS American Studies: Religion, CARS Catholic Studies: Religious Studies, DEIE Diversity, Equality, and Inclusion Elective, RSST 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. Previously RS 0106.

RLST 1667 Mormonism: An American Church**3 Credits****Attributes:** ASRS American Studies: Religion, RSST 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. Previously RS 0267.

RLST 1701 Introduction to Islam**3 Credits****Attributes:** INEL International Studies Elective, IWHU Islamic World Studies: Humanities, RSTH 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. Previously RS 0105.

RLST 1801 Asian Religions**3 Credits****Attributes:** ANMC Asian Studies Elective, DEIE Diversity, Equality, and Inclusion Elective, INEL International Studies Elective, RSST 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. Previously RS 0101B.

RLST 1802 Buddhism**3 Credits**

Attributes: ANMC Asian Studies Elective, INEL International Studies Elective, RSST 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. Previously RS 0188.

RLST 2099 Religious Studies Seminar**3 Credits**

Prerequisite: 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. Previously RS 0399.

RLST 2113 Jews and Judaism in America**3 Credits**

Attributes: ASUP American Studies Upper Level, JST Judaic Studies Minor, RSST Religious Studies Major Track

Prerequisite: 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. Previously RS 0213.

RLST 2115 Women in Judaism**3 Credits**

Attributes: JST Judaic Studies Minor, RSST Religious Studies Major Track, WSGF Women, Gender, and Sexuality Studies: Gender Focused

Prerequisite: 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. Previously RS 0215.

RLST 2117 The Literature of Jewish Modernity**3 Credits**

Attributes: JST Judaic Studies Minor, RSST Religious Studies Major Track

Prerequisite: 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**

Attributes: JST Judaic Studies Minor, PJST Peace and Justice Studies, RSST Religious Studies Major Track, RSTH Religious Studies Theology Track

Prerequisites: 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? Previously RS 0218.

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**

Attributes: JST Judaic Studies Minor, RSTH Religious Studies Theology Track

Prerequisite: 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. Previously RS 0315.

RLST 2150 Second Temple Judaism and the Dead Sea Scrolls**3 Credits**

Attributes: JST Judaic Studies Minor

Prerequisite: 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. Previously RS 0300.

RLST 2155 Jewish Mysticism**3 Credits**

Attributes: JST Judaic Studies Minor, RSST Religious Studies Major Track
Prerequisite: 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**

Attributes: JST Judaic Studies Minor, RSST Religious Studies Major Track, WSGF Women, Gender, and Sexuality Studies: Gender Focused
Prerequisite: 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. Previously RS 0205.

RLST 2207 Prophetic and Apocalyptic Voices**3 Credits**

Attributes: RSST Religious Studies Major Track
Prerequisite: 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. Previously RS 0207.

RLST 2209 Jewish Interpretations of Scriptures**3 Credits**

Attributes: JST Judaic Studies Minor, RSTH Religious Studies Theology Track

Prerequisite: 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. Previously RS 0209.

RLST 2210 A Feminist, Gender, and Queer Reading of the Hebrew Bible: Finding New Voices**3 Credits**

Attributes: RSST Religious Studies Major Track, RSTH Religious Studies Theology Track, WSGF 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**

Attributes: CARS Catholic Studies: Religious Studies, RSST Religious Studies Major Track

Prerequisite: 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. Previously RS 0220.

RLST 2221 Good News of the Gospels**3 Credits**

Attributes: CARS Catholic Studies: Religious Studies, RSST Religious Studies Major Track

Prerequisite: 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. Previously RS 0221.

RLST 2222 Writings of John**3 Credits**

Attributes: CARS Catholic Studies: Religious Studies, RSST Religious Studies Major Track

Prerequisite: 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. Previously RS 0222.

RLST 2331 The Problem of God**3 Credits**

Attributes: CARS Catholic Studies: Religious Studies, RSTH Religious Studies Theology Track

Prerequisite: 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. Previously RS 0231.

RLST 2335 Liberation Theology**3 Credits**

Attributes: BSAH Black Studies: Arts and Humanities, BSFC Black Studies Focus Course, CARS Catholic Studies: Religious Studies, HASM Humanitarian Action Minor Skills/Method Course, INEL International Studies Elective, LCEL LACS Minor: Elective, PJST Peace and Justice Studies, RSTH Religious Studies Theology Track

Prerequisite: 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. Previously RS 0235.

RLST 2336 Catholicism and Gender**3 Credits**

Attributes: CARS Catholic Studies: Religious Studies, RSTH Religious Studies Theology Track, WSGF 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. Previously RS 0236.

RLST 2338 Evil**3 Credits**

Attributes: CARS Catholic Studies: Religious Studies, RSTH Religious Studies Theology Track

Prerequisite: 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? Previously RS 0238.

RLST 2339 Last Things: Catholic Belief in Life After Death**3 Credits**

Attributes: CARS Catholic Studies: Religious Studies, RSTH Religious Studies Theology Track

Prerequisite: 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. Previously RS 0239.

RLST 2428 Early Christianity**3 Credits**

Attributes: CARS Catholic Studies: Religious Studies, RSTH Religious Studies Theology Track

Prerequisite: 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). Previously RS 0228.

RLST 2430 Eastern Christianity: Europe, Africa, and Asia**3 Credits**

Attributes: RSST Religious Studies Major Track, RSTH Religious Studies Theology Track

Prerequisite: 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**

Attributes: CARS Catholic Studies: Religious Studies, RSST Religious Studies Major Track

Prerequisite: 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. Previously RS 0240.

RLST 2441 Encountering God in Medieval Christian Thought**3 Credits**

Attributes: CARS Catholic Studies: Religious Studies, RSTH Religious Studies Theology Track

Prerequisite: 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. Previously RS 0241.

RLST 2443 The Papacy**3 Credits**

Attributes: CARS Catholic Studies: Religious Studies, ISIF Italian Studies: Italy-Focused, ITEN Italian Course Taught in English, RSTH Religious Studies Theology Track

Prerequisites: 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. Previously RS 0343.

RLST 2445 The Reformation Era**3 Credits****Attributes:** CARS Catholic Studies: Religious Studies, RSST Religious Studies Major Track, RSTH Religious Studies Theology Track**Prerequisite:** 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. Previously RS 0245.

RLST 2448 Faith and Reason: The Catholic Intellectual Tradition**3 Credits****Attributes:** RSTH Religious Studies Theology Track**Prerequisite:** 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. Previously RS 0248.

RLST 2544 Finding God in All Things**3 Credits****Attributes:** CARS Catholic Studies: Religious Studies, RSTH Religious Studies Theology Track**Prerequisite:** 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. Previously RS 0244.

RLST 2550 Catholic 2.0: Faith and Practice**3 Credits****Attributes:** CARS Catholic Studies: Religious Studies, RSTH Religious Studies Theology Track**Prerequisite:** 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 2552 Contemporary Moral Problems**3 Credits****Attributes:** CARS Catholic Studies: Religious Studies, DEIE Diversity, Equality, and Inclusion Elective, EDCG Educational Studies Cognate, RSTH Religious Studies Theology Track**Prerequisite:** 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. Previously RS 0252.

RLST 2555 Catholic Social Teaching**3 Credits****Attributes:** CARS Catholic Studies: Religious Studies, DEIE Diversity, Equality, and Inclusion Elective, PJST Peace and Justice Studies, RSTH Religious Studies Theology Track**Prerequisite:** 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. Previously RS 0255.

RLST 2557 Christian Spirituality**3 Credits****Attributes:** CARS Catholic Studies: Religious Studies, RSTH Religious Studies Theology Track**Prerequisite:** 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. Previously RS 0257.

RLST 2558 The Classic: Truth in Religion and the Arts**3 Credits****Attributes:** RSTH Religious Studies Theology Track**Prerequisite:** 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. Previously RS 0258.

RLST 2559 Saints and Sinners: Images of Holiness in Contemporary Fiction**3 Credits****Attributes:** CARS Catholic Studies: Religious Studies, RSTH Religious Studies Theology Track**Prerequisite:** 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. Previously RS 0259.

RLST 2649 American Catholic Theologians**3 Credits**

Attributes: ASRS American Studies: Religion, ASUP American Studies Upper Level, CARS Catholic Studies: Religious Studies, RSTH Religious Studies Theology Track

Prerequisite: 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. Previously RS 0249.

RLST 2660 I'm Spiritual, Not Religious: The American Spiritual Tradition**3 Credits**

Attributes: ASGW American Studies: Gateway, ASRS American Studies: Religion, ASUP American Studies Upper Level, RSST Religious Studies Major Track, RSTH Religious Studies Theology Track

Prerequisite: 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. Previously RS 0360.

RLST 2662 Afro-Caribbean and African American Religions: Shout, O Children!**3 Credits**

Attributes: ASRS American Studies: Religion, BSAH Black Studies: Arts and Humanities, BSFC Black Studies Focus Course, DEIE Diversity, Equality, and Inclusion Elective, INEL International Studies Elective, PJST Peace and Justice Studies, RSST Religious Studies Major Track

Prerequisite: 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. Previously RS 0262.

RLST 2663 New Religious Movements in America**3 Credits**

Attributes: ASRS American Studies: Religion, ASUP American Studies Upper Level, RSST Religious Studies Major Track

Prerequisite: 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? Previously RS 0263.

RLST 2665 Religion and Medicine in the United States**3 Credits**

Attributes: ASGW American Studies: Gateway, HSTE Health Studies: Traditions, Delivery, and Ethics, RSST Religious Studies Major Track

Prerequisite: 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 2668 American Catholic History**3 Credits**

Attributes: ASRS American Studies: Religion, CARS Catholic Studies: Religious Studies, RSST Religious Studies Major Track

Prerequisite: 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. Previously RS 0268.

RLST 2669 Religion and the Civil Rights Movement**3 Credits**

Attributes: BSFC Black Studies Focus Course, DEIE Diversity, Equality, and Inclusion Elective, RSST Religious Studies Major Track

Prerequisite: 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. Previously RS 0269.

RLST 2730 Islamic Theology**3 Credits**

Attributes: IWHU Islamic World Studies: Humanities, RSTH Religious Studies Theology Track

Prerequisite: 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. Previously RS 0276.

RLST 2750 Islamic Ethical and Legal Thought**3 Credits****Attributes:** IWHU Islamic World Studies: Humanities, RSTH Religious Studies Theology Track**Prerequisite:** 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 of 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. Previously RS 0273.

RLST 2760 Islam in America**3 Credits****Attributes:** ASRS American Studies: Religion, ASUP American Studies Upper Level, DEIE Diversity, Equality, and Inclusion Elective, IWHU Islamic World Studies: Humanities, RSST Religious Studies Major Track**Prerequisite:** 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. Previously RS 0275.

RLST 2795 Islam, Race, Power**3 Credits****Attributes:** DEIE Diversity, Equality, and Inclusion Elective, IWHU Islamic World Studies: Humanities**Prerequisite:** 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. Previously RS 0379.

RLST 2880 Hinduism**3 Credits****Attributes:** ANMC Asian Studies Elective, INEL International Studies Elective, RSST Religious Studies Major Track**Prerequisite:** 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. Previously RS 0280.

RLST 2883 Buddhist Spirituality**3 Credits****Attributes:** ANMC Asian Studies Elective, INEL International Studies Elective**Prerequisite:** 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. Previously RS 0283.

RLST 2886 Buddhism in the United States**3 Credits****Attributes:** ANMC Asian Studies Elective, RSST Religious Studies Major Track**Prerequisite:** 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. Previously RS 0286.

RLST 2889 Tantrism**3 Credits****Attributes:** ANMC Asian Studies Elective, INEL International Studies Elective, RSST Religious Studies Major Track**Prerequisite:** 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. Previously RS 0289.

RLST 2900 Special Topics (Shell)**3 Credits****Attributes:** RSST Religious Studies Major Track, RSTH Religious Studies Theology Track**Prerequisite:** 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. Previously RS 0299.

RLST 3990 Independent Study**1-3 Credits****Prerequisite:** One 1000-level religious studies course.

Students, in consultation with a department director, define their course of study. Previously RS 0398.

Russian (RUSN)

RUSN 1110 Elementary Russian I

3 Credits

Attributes: RECS Russian, Eastern European, and Central Asian Studies, RSLG 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. Previously RU 0110.

RUSN 1111 Elementary Russian II

3 Credits

Attributes: RECS Russian, Eastern European, and Central Asian Studies, RSLG Russian Studies Minor: Language

Prerequisite: 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. Previously RU 0111.

RUSN 2210 Intermediate Russian I

3 Credits

Attributes: RECS Russian, Eastern European, and Central Asian Studies, RSLG Russian Studies Minor: Language

Prerequisite: 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. Previously RU 0210.

RUSN 2211 Intermediate Russian II

3 Credits

Attributes: RECS Russian, Eastern European, and Central Asian Studies, RSLG Russian Studies Minor: Language

Prerequisite: 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. Previously RU 0211.

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. Previously RES 0395.

RECS 4999 Capstone Seminar: Current Topics in Russia, Eastern Europe, and Central Asia

3 Credits

Prerequisite: 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. Previously RES 0310.

Social Work, BSW (SWRK)

SWRK 1101 Social Work Essentials I

2 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 course will support students in the development of practices meant to enhance their ability to be present, manage stress, sustain wellbeing, access joy, and engage in self-care through the development of mindfulness and other contemplative practices.

SWRK 1102 Social Work Essentials II

2 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, purpose, and service. 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. Students will engage in practices meant to enhance their ability to engage in self-care, self-compassion, and presence through the development of mindfulness and other contemplative practices.

SWRK 2400 Social Work: An Introduction

3 Credits

Attributes: HSSS 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. Previously SK 0192.

SWRK 2410 History of Social Welfare**3 Credits**

Attributes: ASSO American Studies: Sociology, HSSS Health Studies: Social Science, PJST Peace and Justice Studies

Prerequisite: 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. Exploration of historical events, as well as divisions in American Society, regarding social justice and issues of class, race, ethnicity, religion, and gender will provide a framework through which to view current controversies, including the economic and social climate for groups such as the working poor and undocumented immigrants. In addition, the course will provide historical context to contemporary issues by exploring the ongoing implications and ethical merit of social policies such as the Personal Responsibility and 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, the Deferred Action for Childhood Arrivals Policy (DACA), and the current separation of parents and children at the United States southern border. Crosslisted with SOCI 2410. Previously SK 0193.

SWRK 3301 Human Behavior in the Social Environment I**3 Credits**

Corequisite: SWRK 3303.

Prerequisite: 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. Previously SK 0301.

SWRK 3302 Human Behavior in the Social Environment II**3 Credits**

Corequisite: SWRK 3304.

Prerequisite: 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. Previously SK 0302.

SWRK 3303 Social Policy and Social Justice**4 Credits**

Co-requisite: SWRK 3301.

Prerequisites: SWRK 2400, 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 an agency setting and culminates in an original research project that includes a presentation and poster to be presented at the research symposium. Previously SK 0303.

SWRK 3304 Research in Social Work Practice**4 Credits**

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 and culminates in an original research project that includes a presentation and poster to be presented at the research symposium. Previously SK 0304.

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. Previously SK 0311.

SWRK 4305 Generalist Social Work Practice I**3 Credits**

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. Previously SK 0305.

SWRK 4306 Generalist Social Work Practice II**3 Credits****Prerequisite:** 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. Previously SK 0306.

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. Previously SK 0307.

SWRK 4308 Integrative Field Practicum Seminar II**3 Credits****Prerequisite:** 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, and a comprehensive case study paper. Previously SK 0308.

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 prepare students for professional practice in social work. Previously SK 0309.

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 prepare students for professional practice in social work. Previously SK 0310.

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. Previously SK 0433.

SWRG 5447 Human Behavior and the Social Environment II**3 Credits**

This course explores the processes of individual and family development from childhood through old age. Presenting theoretical perspectives for studying child, adolescent, adult, and family development, the course examines the modification of family structures over time and psychosocial development within family systems and cultural contexts. Crosslisted with COUN 5447, MFTH 5447. Previously SK 0447.

SWRG 5533 Human Behavior and the Social Environment I**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. Previously SK 0533.

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. Previously SK 0550.

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. Previously SK 0552.

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 reviewed 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. Previously SK 0559.

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. Previously SK 0566.

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 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. Previously SK 0450.

SWRG 6552 Generalist Social Work Practice II**3 Credits****Prerequisite:** 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. Previously SK 0551.

SWRG 6562 Social Work Fieldwork II**3 Credits****Prerequisite:** 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. Previously SK 0560.

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 first required course (of a two course sequence in MI) 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. Previously SK 0562.

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 therapy, and family 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. Previously SK 0568.

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. Previously SK 0569.

SWRG 6570 Assessment Techniques and Psychopathology II 3 Credits
Prerequisite: 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

Prerequisites: SWRG 5433, SWRG 5447, SWRG 5533, SWRG 5553, SWRG 5566, SWRG 6552, SWRG 6562.

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. Previously SK 0577.

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. Previously SK 0580.

SWRG 6582 Advanced Clinical Specialist Field Work II 3 Credits
Prerequisite: SWRG 6581.

This course is a continuation of SWRG 6581. Previously SK 0581.

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. Previously SO 0011.

SOCI 1110 American Society 3 Credits

Attributes: ASGW American Studies: Gateway, ASSO 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. Previously SO 0112.

SOCI 1115 Sociology of the Family**3 Credits****Attributes:** ASSO American Studies: Sociology, WSGC Women, Gender, and Sexuality Studies: Gender Component

The family is a basic social institution of all societies. This course, which examines family systems as they exist in other cultures and in times past, focuses on understanding the contemporary American family system. Students consider American patterns of dating, mate selection, sexual behavior, marriage, parenting, and aging, as well as alternative life styles and family instability. Previously SO 0142.

SOCI 1120 Sociology of Sexuality**3 Credits****Attributes:** ASSO American Studies: Sociology, WSGF Women, Gender, and Sexuality Studies: Gender Focused

This course explores the social construction of human sexual behavior, examining the influence of social institutions on sexuality, social responses to variations in behaviors, and the organization of sexual identities. Previously SO 0144.

SOCI 1125 Sociology of Religion**3 Credits****Attributes:** ASSO 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. Previously SO 0151.

SOCI 1130 Feminism, Gender, and Everyday Life**3 Credits****Attributes:** ASGW American Studies: Gateway, ASSO American Studies: Sociology, DEIE Diversity, Equality, and Inclusion Elective, PJST Peace and Justice Studies, WSGF Women, Gender, and Sexuality Studies: Gender Focused

This course provides an introduction to the study of gender through a feminist lens. The central themes of the course are the changes and continuities of gender roles within the United States, the social processes that influence our gender identities, and the connections between gender, power, and inequality. The course addresses the ways in which the media, popular culture, work, and schools have been pivotal sites for the creation and maintenance of gender performances, and explores sites of resistance in art and activism. The course pays special attention to the ways in which race, class, and sexualities intersect processes of gender relations and social change. Previously SO 0166.

SOCI 1135 Race, Gender, and Ethnic Relations**3 Credits****Attributes:** ASGW American Studies: Gateway, ASSO American Studies: Sociology, BSFC Black Studies Focus Course, BSSS Black Studies: Social and Behavioral Sciences, DEIE Diversity, Equality, and Inclusion Elective, EDCG Educational Studies Cognate, PJST Peace and Justice Studies, SPEL Sports Media Elective, WSGC 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. Previously SO 0162.

SOCI 1140 Urban/Suburban Sociology: NYC**3 Credits****Attributes:** ASSO American Studies: Sociology, BSFC Black Studies Component Course, BSSS Black Studies: Social and Behavioral Sciences, PACG 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. Previously SO 0163.

SOCI 1145 Globalization**3 Credits****Attributes:** ASSO American Studies: Sociology, INEL International Studies Elective

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? Previously SO 0190.

SOCI 1150 Introduction to International Migration**3 Credits****Attributes:** BSFC Black Studies Component Course, BSSS Black Studies: Social and Behavioral Sciences, DEIE Diversity, Equality, and Inclusion Elective, EDCG Educational Studies Cognate, HACA Humanitarian Action Minor Context Course, INEL International Studies Elective, LCEL LACS 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. Previously SO 0185.

SOCI 1155 Sociology of Europe**3 Credits****Attributes:** INEL International Studies Elective, MSID 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. Previously SO 0189.

SOCI 1160 Contemporary Latin American and Caribbean Society 3 Credits

Attributes: INEL International Studies Elective, LCEL LACS 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. Previously SO 0188.

SOCI 1165 Social Change in Developing Nations 3 Credits

Attributes: INEL International Studies Elective, LCEL LACS 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. Previously SO 0191.

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. Previously SO 0195.

SOCI 2100 American Class Structure 3 Credits

Attributes: ASGW American Studies: Gateway, ASSO American Studies: Sociology, EDCG Educational Studies Cognate, PJST 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. Previously SO 0161.

SOCI 2110 Race, Cities, and Poverty 3 Credits

Attributes: ASSO American Studies: Sociology, BSFC Black Studies Focus Course, BSSS Black Studies: Social and Behavioral Sciences, DEIE Diversity, Equality, and Inclusion Elective, EDCG Educational Studies Cognate, PACG Public Administration City Government, PJST Peace and Justice Studies

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. Previously SO 0165.

SOCI 2115 Women: Work and Sport 3 Credits

Attributes: ASSO American Studies: Sociology, PJST Peace and Justice Studies, SPEL Sports Media Elective, WSGF Women, Gender, and Sexuality Studies: Gender Focused

Sex and gender stratification exists in most areas of everyday life throughout American society. This course concentrates on women in the workplace and in sport. It analyzes women's occupational status and the accompanying roles from the colonial period to the present from a variety of theoretical perspectives. Since sport is a microcosm of society, the course treats the perceptions and experiences of female athletes in 20th-century America as a mirror of the inequality within the larger world. Previously SO 0169.

SOCI 2120 Population: Birth, Death, and Migration 3 Credits

Attributes: HSSS 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. Previously SO 0184.

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

Attributes: BSFC Black Studies Focus Course, BSHI Black Studies: History, BSSS Black Studies: Social and Behavioral Sciences, DEIE Diversity, Equality, and Inclusion Elective, H_AF History After 1750, H_NW Non-Western History, H_US U.S. History, LCEL LACS Minor: Elective
Prerequisite: 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**

Attributes: ASSO American Studies: Sociology, PACJ 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. Previously SO 0171.

SOCI 2210 Sociology of Law**3 Credits**

Attributes: ASSO American Studies: Sociology, PACJ 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. Previously SO 0175.

SOCI 2215 Death Penalty in America**3 Credits**

Attributes: ASSO American Studies: Sociology, DEIE Diversity, Equality, and Inclusion Elective, PACJ Public Administration Criminal Justice, PJST Peace and Justice Studies

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? Previously SO 0179.

SOCI 2220 Criminal Justice System Seminar**3 Credits**

Attributes: ASSO American Studies: Sociology, ASUP American Studies Upper Level, PACJ Public Administration Criminal Justice, PJST Peace and Justice Studies

This seminar explores in detail the workings and problems of the criminal justice system in the United States. In addition to investigating the sources of criminal behavior, the course focuses on the arraignment process, probation, the trial, sentencing, prison reform, and parole. Previously SO 0279.

SOCI 2300 Sociology of Education**3 Credits**

Attributes: BSFC Black Studies Focus Course, BSSS Black Studies: Social and Behavioral Sciences, DEIE Diversity, Equality, and Inclusion Elective, EDCG Educational Studies Cognate

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. Previously SO 0194.

SOCI 2400 Social Work: An Introduction**3 Credits**

Attributes: HSSS 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. Previously SO 0192.

SOCI 2410 History of Social Welfare**3 Credits**

Attributes: ASSO American Studies: Sociology, HSSS Health Studies: Social Science, PJST Peace and Justice Studies

Prerequisite: 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. Previously SO 0193.

SOCI 3600 Methods of Research Design**4 Credits**

Attributes: ASSO American Studies: Sociology, EVAP Environmental Studies: Applied Professional Skills, PAPS 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. Previously SO 0222.

SOCI 3610 Statistics: Social and Political Data Analysis**4 Credits**

Attributes: EVAP Environmental Studies: Applied Professional Skills, PAPS 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. Previously SO 0221.

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. Previously SO 0228.

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. Previously SO 0229.

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. Previously SO 0397-0398.

SOCI 4990 Independent Study**1-3 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. Previously SO 0399.

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. Previously SO 0461.

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. Previously SO 0465.

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. Previously SO 0494.

Software Engineering (SWEG)

SWEG 3301 Software Engineering Methods**3 Credits**

Attributes: MWID Magis Core: Writing in the Discipline

Corequisite: CPSC 3351L.

Prerequisite: 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. Previously SW 0300.

SWEG 3302 Software Design Methods**3 Credits**

Prerequisite: 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. Previously SW 0301.

SWEG 4312 Agile Software Engineering**3 Credits**

Prerequisite: 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. Previously SW 0312.

SWEG 4320 Software Testing and Maintenance**3 Credits**

Prerequisite: 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. Previously SW 0320.

SWEG 4321 Software Project Management**3 Credits**

Prerequisite: 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. Previously SW 0321.

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. Previously SW 0382.

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. Previously SW 0383.

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. Previously SW 0400.

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. Previously SW 0401.

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. Previously SW 0406.

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. Previously SW 0416.

SWEG 5312 Agile Software Engineering**3 Credits**

Prerequisite: 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. Previously SW 0412.

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. Previously SW 0415.

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. Previously SW 0417.

SWEG 5320 Software Testing and Maintenance**3 Credits**

Prerequisite: 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. Previously SW 0420.

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. Previously SW 0421.

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. Previously SW 0422.

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. Previously SW 0433.

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. Previously SW 0449.

SWEG 5350 Introduction to Data Science**3 Credits**

Prerequisite: CPSC 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. Previously SW 0455.

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. Previously SW 0402.

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: CPSC 1101.

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.

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. Previously SW 0407.

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. Previously SW 0427.

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. Previously SW 0521.

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. Previously SW 0530.

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. Previously SW 0482.

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. Previously SW 0483.

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. Previously SW 0404.

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. Previously SW 0409.

SWEG 6410 Enterprise Java**3 Credits****Prerequisite:** 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. Previously SW 0410.

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 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. Previously SW 0448.

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. Previously SW 0461.

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. Previously SW 0499.

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. Previously SW 0505.

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. Previously SW 0508.

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. Previously SW 0512.

SWEG 6516 PHP and MySQL**3 Credits****Prerequisite:** 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. Previously SW 0516.

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. Previously SW 0518.

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. Previously SW 0531.

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. Previously SW 0596.

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. Previously SW 0599.

SWEG 6961 Capstone Professional Project I**3 Credits****Prerequisite:** 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. Previously SW 0550.

SWEG 6962 Capstone Professional Project II**3 Credits****Prerequisite:** 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. Previously SW 0551.

SWEG 6971 Thesis I**3 Credits****Prerequisites:** 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. Previously SW 0560.

SWEG 6972 Thesis II**3 Credits****Prerequisite:** 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. Previously SW 0561.

Spanish (SPAN)

SPAN 1110 Elementary Spanish I**3 Credits****Attributes:** MWAC 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. Previously SP 0110.

SPAN 1111 Elementary Spanish II**3 Credits****Attributes:** MWAC Magis Core: Writing Across Curriculum**Prerequisite:** 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. Previously SP 0111.

SPAN 2210 Intermediate Spanish I**3 Credits****Attributes:** MWAC Magis Core: Writing Across Curriculum**Prerequisite:** 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. Previously SP 0210.

SPAN 2211 Intermediate Spanish II**3 Credits****Attributes:** LCEL LACS Minor: Elective, MWAC Magis Core: Writing Across Curriculum**Prerequisite:** 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. Previously SP 0211.

SPAN 2220 Topics in Language and Culture**3 Credits****Attributes:** LCEL LACS Minor: Elective, MWAC Magis Core: Writing Across Curriculum**Prerequisite:** SPAN 2211.

This course improves proficiency in written and oral expression by focusing on particular topics in Spanish language and culture. Students develop advanced writing and speaking skills while concentrating on grammar, style, and appropriateness. Weekly compositions, based primarily on the genres studied (short story, theater, memoirs, essay) allow students to identify and correct grammatical mistakes. Students present speeches in class and conduct situational dramas such as job interviews, television reporting, courtroom trials, debates in Spanish. Films and various cultural artifacts (comic strips, proverbs, songs) familiarize students with idiomatic Spanish. Previously SP 0220.

SPAN 2222H Advanced Spanish for Heritage Speakers**3 Credits****Attributes:** MWAC Magis Core: Writing Across Curriculum, SPME Spanish Major or Minor Elective**Prerequisite:** 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 SP 0220H; SPAN 2220H

SPAN 3225 Spanish and English in Contrast**3 Credits****Attributes:** LCLC LACS Minor: Latin America and Caribbean Studies, MWAC Magis Core: Writing Across Curriculum**Prerequisite:** 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. Previously SP 0225.

SPAN 3231B Career-Oriented Spanish for Business 3 Credits

Attributes: BUEL Business Elective, LCEL LACS Minor: Elective, SPME Spanish Major or Minor Elective

Prerequisite: 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. Previously SP 0231B.

SPAN 3231N Career-Oriented Spanish for Nursing and Health Studies 3 Credits

Attributes: HSTE Health Studies: Traditions, Delivery, and Ethics, LCEL LACS Minor: Elective, SPME Spanish Major or Minor Elective

Prerequisite: 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. Previously SP 0231N.

SPAN 3245 Analysis and Interpretation of Hispanic Literature 3 Credits

Attributes: LCEL LACS Minor: Elective, MWAC Magis Core: Writing Across Curriculum

Prerequisite: 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. Previously SP 0245.

SPAN 3251 Spanish Civilization and Culture 3 Credits

Prerequisite: 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. Previously SP 0251.

SPAN 3253 Spanish-American Civilization 3 Credits

Attributes: DEIE Diversity, Equality, and Inclusion Elective, LCEL LACS Minor: Elective, LCSC LACS Minor: Spanish Culture and Literature

Prerequisite: 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. Previously SP 0253.

SPAN 3271 Hispanic Film 3 Credits

Attributes: DEIE Diversity, Equality, and Inclusion Elective, GDFT Graphic Design: Film and Television, LCEL LACS Minor: Elective, LCSC LACS Minor: Spanish Culture and Literature, MEVP Magis Core Exploration: VPA

Prerequisite: 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

Attributes: MWID Magis Core: Writing in the Discipline

Prerequisite: 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. Previously SP 0285.

SPAN 3286 Languages and Identities: Sociolinguistic Approaches to Spanish in the U.S. 3 Credits

Attributes: DEIE Diversity, Equality, and Inclusion Elective, SPME Spanish Major or Minor Elective

Prerequisite: 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 offers 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: 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. Previously SP 0377-0378.

SPAN 3990 Independent Study 3 Credits

Prerequisite: 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. Previously SP 0382.

SPAN 4302 Remembering the Spanish Civil War Through Contemporary Literature and Film **3 Credits****Attributes:** MELT Magis Core Exploration: Literature, SPME Spanish Major or Minor Elective**Prerequisite:** 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. Previously SP 0302.

SPAN 4305 Popular Culture in Latin America **3 Credits****Attributes:** LCEL LACS Minor: Elective, LCSC LACS Minor: Spanish Culture and Literature**Prerequisite:** 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 folletín (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 Trova, and Rock Latino; artistic movements such as Mexican muralist; traditional and popular crafts; cooking; popular dance; and film. Previously SP 0305.

SPAN 4306 Cuban Film: A Close Look at the Revolution **3 Credits****Attributes:** LCEL LACS Minor: Elective, MELT Magis Core Exploration: Literature, MWID Magis Core: Writing in the Discipline, SPME Spanish Major or Minor Elective**Prerequisite:** 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. Previously SP 0306.

SPAN 4307 Translation Theory and Practice: Spanish and English **3 Credits****Attributes:** SPME Spanish Major or Minor Elective**Prerequisite:** 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. Previously SP 0307.

SPAN 4309 Bilingualism in the Spanish-Speaking World **3 Credits****Attributes:** SPME Spanish Major or Minor Elective**Prerequisite:** 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. Previously SP 0309.

SPAN 4311 Glory, Splendor, and Decay: Spanish Golden Age Literature **3 Credits****Attributes:** MELT Magis Core Exploration: Literature**Prerequisite:** 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. Previously SP 0311.

SPAN 4341 20th Century Spanish Literature **3 Credits****Attributes:** MELT Magis Core Exploration: Literature**Prerequisite:** 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. Previously SP 0341.

SPAN 4346 Contemporary Spanish Theatre **3 Credits****Prerequisite:** 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. Previously SP 0346.

SPAN 4353 Spanish-American Narrative **3 Credits****Attributes:** LCEL LACS Minor: Elective, LCSC LACS Minor: Spanish Culture and Literature**Prerequisite:** 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. Previously SP 0353.

SPAN 4357 The Spanish Novel **3 Credits****Prerequisites:** 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. Previously SP 0357.

SPAN 4359 Culture, Civilization, and Literature in the Spanish-American Caribbean Region 3 Credits

Attributes: DEIE Diversity, Equality, and Inclusion Elective, EDCG Educational Studies Cognate, LCEL LACS Minor: Elective, LCSC LACS Minor: Spanish Culture and Literature, MELT Magis Core Exploration: Literature, PJST Peace and Justice Studies

Prerequisites: 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. Previously SP 0359.

SPAN 4360 Dictatorships and Revolutionary Movements in Contemporary Latin America 3 Credits

Attributes: LCEL LACS Minor: Elective, LCSC LACS Minor: Spanish Culture and Literature, MELT Magis Core Exploration: Literature

Prerequisite: 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). Previously SP 0360.

SPAN 4371 Images of Latin American Indians 3 Credits

Attributes: LCEL LACS Minor: Elective, LCSC LACS Minor: Spanish Culture and Literature

Prerequisites: 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. Previously SP 0371.

SPAN 4391 Introduction to Translation and Interpreting Studies, Spanish <> English 3 Credits

Attributes: SPME Spanish Major or Minor Elective

Corequisite: SPAN 4392.

Prerequisite: 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

Attributes: SPME Spanish Major or Minor Elective

Corequisite: SPAN 4391.

Prerequisite: 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

Attributes: SPME Spanish Major or Minor Elective

Corequisite: SPAN 4394.

Prerequisite: 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 complexation 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

Attributes: SPME Spanish Major or Minor Elective

Corequisite: SPAN 4393.

Prerequisite: 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

Attributes: SPME Spanish Major or Minor Elective

Corequisite: SPAN 4396.

Prerequisite: 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

Attributes: SPME Spanish Major or Minor Elective

Corequisite: SPAN 4395.

Prerequisite: 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

Attributes: LCEL LACS Minor: Elective

Prerequisite: 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. Previously SP 0381.

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**

Prerequisites: EDUC 2201, EDUC 3350.

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. Previously SE 0310.

SPED 4411 Introduction to Individuals with Intellectual Disabilities **3 Credits**

Prerequisites: EDUC 2201, EDUC 3350.

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. Previously SE 0311.

SPED 4413 Theories of and Introduction to Learning Disabilities **3 Credits**

Prerequisites: EDUC 2201, EDUC 3350.

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. Previously SE 0313.

SPED 4417 Introduction to Children and Youth with Emotional Disturbances **3 Credits**

Prerequisites: EDUC 2201, EDUC 3350.

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. Previously SE 0317.

SPED 4565 Evidenced-Based Strategies in the Inclusive Classroom **3 Credits**

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. Prerequisite: SPED 3350

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. Previously SE 0400.

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. Previously SE 0403. 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. Previously SE 0410.

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. Previously SE 0411.

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. Previously SE 0413.

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. Previously SE 0417.

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. Previously SE 0419.

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. Previously SE 0432.

SPED 5486 Developmental Literacy I: Fundamentals of Reading and Language Development 3 Credits

This course is the first in a set of two courses that address the foundational concepts, theories, empirical research, and developmental milestones associated with oral and written language. This course focuses on the development of essential decoding strand reading skills (phonological awareness, alphabetic principle, fluency), as well as aspects of cognition and behavior that affect reading and writing. Candidates learn how to administer, score, and interpret universal screening and informal diagnostic measures in the areas of phonological awareness, alphabetic principle, and fluency for the purposes of determining the most appropriate starting point for instruction and planning differentiated instructional groups. Candidates also learn how to select and deliver varied research-based instructional strategies to develop students' foundational reading skills in the areas of phonological awareness, alphabetic principle, and fluency. Crosslisted with RLDV 5486. Previously SE 0486.

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. Previously SE 0487.

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. Previously SE 0534.

SPED 6537 Curriculum and Methods for Students with Mild to Moderate Disabilities 3 Credits

Prerequisite: SPED 6534.

This course provides candidates with knowledge and skills in planning, organizing, implementing, and evaluating instruction based on knowledge of the student, the intended student outcomes, and the curriculum. The course focuses on students with dis/abilities, including students from diverse linguistic and cultural backgrounds. Topics include student characteristics, research-based methods and strategies, curriculum standards, accommodations, and modifications. Most importantly, this course is designed to help candidates think and reflect on how to design instruction that is appropriate given the unique students and communities in which candidates will teach throughout their career. Previously SE 0537.

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. Previously SE 0550.

SPED 6561 Diagnostic Procedures in Special Education of Youth with Disabilities 3 Credits

This course includes selection, administration, scoring, and interpretation of individually administered cognitive processing and academic achievement diagnostic instruments that help drive instructional decision-making. Candidates are also provided with detailed information/data as it pertains to administering varied diagnostic assessments used for disability identification, interpreting results for purposes of determining eligibility for various disabilities (e.g., dyslexia, dyscalculia, dysgraphia, etc.) and, understanding varied diagnostic assessments and procedures by using various models of interpretation and theoretical foundations. Also, the course provides a foundation for understanding the strengths and weaknesses of students undergoing diagnostic evaluations. Previously SE 0561.

SPED 6565 Evidence-Based Strategies in the Inclusive Classroom 3 Credits

Prerequisite: 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. Previously SE 0565.

SPED 6575 Developmental Literacy Remediation for Students in Grades 3+ 1 Credit

Fee: \$141 SEHD Fee

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. Previously SE 0575.

SPED 6576 Intensive Instruction I for the Non-Responsive Reader Using the Wilson Reading System 3 Credits**Fee:** \$423 SEHD Fee

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 Credits**Fee:** \$211.5 SEHD Fee

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. Previously SE 0577.

SPED 6578 Intensive Instruction II for the Non-Responsive Reader Using the Wilson Reading System 3 Credits**Fee:** \$423 SEHD Fee

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. Previously SE 0578.

SPED 6579 Clinical Intensive Instruction II for the Non-Responsive Reader in Grades 3+ 1.5 Credits**Fee:** \$211.5 SEHD Fee

This supervised practicum experience is a continuation of SE 0577 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. Previously SE 0579.

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. Previously SE 0599.

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. Previously SE 0568.

SPED 6951 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. Previously SE 0591.

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. Previously SE 0592.

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. Previously SE 0593.

SPED 6954 Student Teaching/DSAP Seminar in Special Education 3 Credits

Corequisite: 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. Previously SE 0594.

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. Previously SE 0595.

SPED 6999 Comprehensive Examination in Special Education 0 Credits

Prerequisites: 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. Previously SE 0099.

Studio Art (SART)

SART 1011 Introduction to Sculpture 3 Credits

Attributes: GDSA Graphic Design: Studio Arts

Fee: \$120 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. Previously SA 0011.

SART 1012 Introduction to Drawing 3 Credits

Attributes: GDSA Graphic Design: Studio Arts

Fee: \$120 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. Previously SA 0012.

SART 1013 Introduction to Figure Drawing 3 Credits

Attributes: GDSA Graphic Design: Studio Arts

Fee: \$120 Materials Fee

This introduction to drawing from the human figure uses a wide variety of media and techniques. The course emphasizes understanding, interpretation, and expressive use of the figure in contemporary studio practice. Students discover proportion and form through line, value, perspective, anatomical studies, and analysis of structure. Students participate in critiques of their projects and, through writing and speaking, develop a language of aesthetic awareness and a sense of artistic quality. Previously SA 0013.

SART 1014 Introduction to Printmaking 3 Credits

Attributes: GDSA Graphic Design: Studio Arts

Fee: \$120 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. Previously SA 0014.

SART 1015 Introduction to Painting 3 Credits

Attributes: GDSA Graphic Design: Studio Arts

Fee: \$120 Materials Fee

This course introduces the methods, techniques, and language of oil painting. Students explore principles of color, construction, paint handling, delineation of form and space, light and shadow, surface, texture, and composition. Students paint primarily from observation and employ representational and abstract modes. Materials and historical concerns are integral parts of directed and individual investigations. Previously SA 0015.

SART 1016 Introduction to 2-D Design**3 Credits****Attributes:** GDSA Graphic Design: Studio Arts**Fee:** \$120 Materials Fee

This course is an introduction to the aesthetic dimension of human existence through the appreciation and practice of pictorial design, a fundamental aspect of our larger visual culture. Studio exercises will familiarize students with concepts such as line, rhythm, shape, balance, texture, and pattern. A hands-on studio environment with computer-based assignments will involve students in practical and creative problem-solving. Adobe Illustrator and Photoshop will be the software programs used on all assignments. Across the semester students become more familiar and conversant in the elements and principles of design as well as the two software programs. Previously SA 0016.

SART 1101 Digital Tools in Art Making**3 Credits****Attributes:** GDSA Graphic Design: Studio Arts**Fee:** \$120 Materials Fee

In this introductory studio course, students will explore digital graphics software and how it may be used in conjunction with traditional art media (such as painting and drawing in pencil, ink, charcoal, pastels, and gouache) to develop a unique visual voice. Through projects that build on one another's idea-based and technical components, students will develop an understanding of vocabulary fundamental to visual language and technology's relationship to art now and throughout history. Projects will emphasize that digital technology is not an end in itself, but a means to realizing ideas. Previously SA 0101.

SART 1102 Experimental Drawing Practices**3 Credits****Attributes:** GDSA Graphic Design: Studio Arts**Fee:** \$120 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. Previously SA 0100.

SART 1105 Color Workshop**3 Credits****Attributes:** GDSA Graphic Design: Studio Arts**Fee:** \$120 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. Previously SA 0105.

SART 1132 Sculpture: Construction and Subtraction**3 Credits****Attributes:** GDSA Graphic Design: Studio Arts**Fee:** \$120 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. Previously SA 0132.

SART 1133 Alternative Processes Photography**3 Credits****Attributes:** GDSA Graphic Design: Studio Arts**Fee:** \$145 Materials Fee

This course covers alternative techniques in photography, including Cyanotypes, Kallotypes, 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. Previously SA 0133.

SART 1134 Digital Photography**3 Credits****Attributes:** GDSA Graphic Design: Studio Arts**Fee:** \$145 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. Previously SA 0134.

SART 1136 Artist Book Construction**3 Credits****Attributes:** GDSA Graphic Design: Studio Arts**Fee:** \$120 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. Previously SA 0136.

SART 1137 Motion and Time-Based Art**3 Credits****Attributes:** GDSA Graphic Design: Studio Arts**Fee:** \$120 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. Previously SA 0137.

SART 1138 From Drawing to Painting**3 Credits****Attributes:** GDSA Graphic Design: Studio Arts**Fee:** \$120 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. Previously SA 0138.

SART 1139 Watercolor 3 Credits**Attributes:** GDSA Graphic Design: Studio Arts**Fee:** \$120 Materials Fee

This course is an introduction to the methods, techniques and language of watercolor. In exploring the fundamentals of watercolor this course helps students develop their abilities to see and explore washes of color in relation to pictorial space and form. Value, composition, color, transparency, and wet into wet processes are explored. This course is designed to be open and accessible to all students. Previously SA 0139.

SART 1140 Darkroom Photography 3 Credits**Attributes:** GDSA Graphic Design: Studio Arts**Fee:** \$145 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. Previously SA 0140.

SART 2230 Advanced Painting 3 Credits**Attributes:** GDSA Graphic Design: Studio Arts**Fee:** \$120 Materials Fee**Prerequisite:** SART 1015.

This course builds on the experience of Introduction to Painting and stresses fluency in paint and the advanced development of technical and expressive skills. It focuses on the generation of ideas as a central component in the process of painting. Individual direction is developed in consultation with the instructor. This course includes individual and group criticism. Previously SA 0230.

SART 2231 Advanced Printmaking 3 Credits**Attributes:** GDSA Graphic Design: Studio Arts**Fee:** \$120 Materials Fee**Prerequisite:** 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. Previously SA 0231.

SART 2232 Advanced Sculpture 3 Credits**Attributes:** GDSA Graphic Design: Studio Arts**Fee:** \$120 Materials Fee**Prerequisite:** 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. Previously SA 0232.

SART 2233 Advanced Photography 3 Credits**Attributes:** GDSA Graphic Design: Studio Arts**Fee:** \$145 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. Previously SA 0233.

SART 2235 Advanced Drawing 3 Credits**Attributes:** GDSA Graphic Design: Studio Arts**Fee:** \$120 Materials Fee**Prerequisite:** 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. Previously SA 0235.

SART 2900 Special Topics (Shell) 3 Credits**Attributes:** GDSA Graphic Design: Studio Arts**Fee:** \$120 Materials Fee

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. Previously SA 0199.

SART 3299 Advanced Projects Seminar 3 Credits**Attributes:** GDSA Graphic Design: Studio Arts**Fee:** \$120 Materials Fee**Prerequisites:** 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. Previously SA 0299.

SART 3980 Studio Internship 1-3 Credits**Attributes:** GDSA 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. Previously SA 0304.

SART 3990 Independent Study 1-3 Credits**Attributes:** GDSA 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. Previously SA 0302.

SART 4301 Exhibition Seminar 3 Credits**Attributes:** GDSA Graphic Design: Studio Arts**Fee:** \$120 Materials Fee**Prerequisite:** 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. Previously SA 0301.

Statistics (STAT)

STAT 2200 Statistical Computing

3 Credits

Prerequisite: 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

Prerequisites: ECON 3278 or MATH 2217 or PSYC 2810 or PUBH 2217; STAT 2200.

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.

Summer Pre-College Programs (SHS)

SHS 0011 Arts and Sciences Pre-College

0 Credits

Fee: \$2100

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 0012 Business Pre-College

0 Credits

Fee: \$2100

The world of business includes analytics, marketing, entrepreneurship, human resources, economics, finance, and strategy setting. Students will learn practical business skills, discover how the profession has evolved, and discuss emerging professional, personal, and academic opportunities with the Dolan School of Business faculty.

SHS 0013 Nursing: The Possibilities Are Endless

0 Credits

Fee: \$1200

Spend a week in the world of nursing, learning about the many opportunities available in the nursing profession. Specific opportunities offered include the basics of first aid and CPR and realistic experiences in the Egan School of Nursing and Health Studies state of the art simulation lab. Students will come away with an understanding of the many possibilities a career in nursing holds with a targeted focus on their personal interests for their future in health care.

SHS 0014 Engineering Pre-College

0 Credits

Fee: \$2100

Autonomous self-navigating robots help accomplish many tasks in places that are difficult to reach by humans. Such robots should be able to recognize obstacles and alter their paths to complete the task. Students will build a robot using Arduino, an open-source platform based on a microcontroller that can be programmed from a computer. The robot will be powered by batteries mounted on a small chassis with wheels driven by motors and other electronic parts, much like a toy car. They will learn to program the Arduino to accept inputs from ultrasonic sensors in order to stop the motors on finding an obstacle.

SHS 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. Previously TX 0502.

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. Previously TX 0510.

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. Previously AC 0542.

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. Previously MG 0512.

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. Previously TX 0530.

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. Previously TX 0540.

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. Previously TX 0550.

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. Previously TX 0585.

TAXN 6970 Research on Contemporary Issues in Taxation 3 Credits

This course introduces students to tax research source materials and provides students with the opportunity to conduct tax research. After the course, students should be able to identify tax issues inherent in various fact scenarios, locate, and evaluate various sources of tax law, and effectively communicate conclusions and recommendations based on their research. Previously TX 0500.

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. Previously TX 0591.

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. Previously TX 0598.

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. Previously SL 0419.

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. Previously SL 0420.

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. Previously SL 0422.

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. Previously SL 0423.

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. Previously SL 0436.

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. Previously SL 0441.

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. Previously SL 0453.

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. Previously SL 0461.

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. Previously SL 0467.

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. Previously SL 0475.

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. Previously SL 0477.

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. Previously SL 0527.

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. Previously SL 0433.

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. Previously SL 0489.

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. Previously SL 0421.

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. Previously SL 0439.

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. Previously SL 0451.

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. Previously SL 0504.

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. Previously SL 0522.

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. Previously SL 0527.

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. Previously SL 0528.

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. Previously SL 0530.

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. Previously SL 0581.

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. Previously SL 0582.

TSLA 6588 Directed Observation I for TESOL/DSAP Candidates 3 Credits

Prerequisites: 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. Previously SL 0588.

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. Previously SL 0589.

TSLA 6900 Special Topics (Shell) 1-3 Credits

Prerequisite: 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. Previously SL 0568.

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. Previously SL 0590.

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. Previously SL 0595.

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. Previously SL 0540.

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. Previously SL 0099.

Theatre (THTR)

THTR 1011 Exploring Theatre 3 Credits

Attributes: MWAC 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. Previously TA 0011.

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. Students will learn and practice Viewpoints, an approach to performance that allows performers to develop stage presence, play as a member of an ensemble, and make exciting performance choices. The class also introduces vocal technique for stage, the key ingredient to theatrical storytelling. Previously TA 0030.

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. Previously TA 0106.

THTR 1111 Great Theatre of the World: Sophocles, Shoguns and Shakespeare 3 Credits

We explore the Great Theatre of the World from ancient Greece (Sophocles) to medieval Japan (Shōguns) to the Renaissance (Shakespeare) as social justice. All theatre is social justice theatre, galvanizing audiences to empathize with characters braving injustices through great entertainment. We begin with the hit Broadway musical, *Hamilton*, and then trace our steps back to Ancient Greece, which produced the first musical dramas about societal injustice. Our journey through the world's great theatres will identify and analyze the values, beliefs, practices, and privileges of our own and other societies and what makes compelling entertainment. Six theatre performances, live and online, included. Previously TA 0110.

THTR 1112 Great Theatre of the World: Henrik, Hanuman, and Hamilton 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. Previously TA 0111.

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. Previously TA 0135.

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. Previously TA 0231.

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. Previously TA 0138.

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. Previously TA 0150.

THTR 1152 Costume Construction for Stage & Screen**3 Credits**

Attributes: MEVP Magis Core Exploration: VPA

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 craftsmanship. 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.

THTR 1154 Theatrical Makeup for Stage & Screen**3 Credits**

Attributes: MEVP Magis Core Exploration: VPA

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.

THTR 1155 Design for Stage & Screen**3 Credits**

Attributes: GDTA 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. Previously TA 0155.

THTR 1158 Scene Painting**3 Credits**

Attributes: GDTA 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 Fairfield production. Previously TA 0158.

THTR 1200 American Women Playwrights**3 Credits**

Attributes: ASGW American Studies: Gateway, ASVP American Studies: Visual and Performing Arts, ENAM American Literature, E_AF English Literature After 1800, WSGF Women, Gender, and Sexuality Studies: Gender Focused

This course traces the evolution of plays by women from the Revolutionary War to plays reflecting the 21st-century concerns of African American, Asian, American, and Latina playwrights. Plays are discussed in light of the social, political, and economic climates that produced them. Special emphasis is given to questions of sex, gender, race, ethnicity, and class, as we explore how American women, despite considerable obstacles, have developed their own theatrical voices. Our study is further informed by the work of feminist performance theorists. Crosslisted with ENGL 1200. Previously TA 0123.

THTR 1250 American Drama**3 Credits**

Attributes: ASGW American Studies: Gateway, ASVP American Studies: Visual and Performing Arts, E_AF English Literature After 1800, MSJ1 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. Previously TA 0120.

THTR 1951 Theatre Fairfield Performance Practicum 1 Credit

Students gain first-hand training in performance under the guidance of theatre professionals. Everyone cast in a Theatre Fairfield production is automatically enrolled in this one-credit practicum. Students may also earn credit by enrolling in weekly Performance Workshops, which focus each semester on introducing a particular performance skill. Some of the topics covered in previous Performance Workshops include: clowning, stage combat, physical performance, and puppetry. This course may be repeated but may not be included in the 120 credits required for graduation. Previously TA 0094.

THTR 1952 Theatre Fairfield Production Practicum 1 Credit

Students gain first-hand training in theatre production under the guidance of theatre professionals. Everyone working on a crew of a Theatre Fairfield production is automatically enrolled in this one-credit practicum. Students must consult with theatre faculty regarding placement as a crew head in stage management, technical, or front-of-house duties. This course may be repeated but may not be included in the 120 credits required for graduation. Previously TA 0095.

THTR 2210 Theatre in Production 3 Credits

Students take this course in conjunction with a particular Theatre Fairfield production. This course offers an immersion experience, as students engage in focused theatrical research in the classroom and immediately apply the concepts in the production. The class/production format makes particularly challenging scripts and/or artistic approaches possible. Some of the topics covered in previous semesters include Restoration comedy, performing Shakespeare, and devised theatre. Previously TA 0210.

THTR 2215 American Musical Theatre: History and Practice 3 Credits

Prerequisite: One music or theatre course.

Musical theatre is a complex genre that has developed in tandem with the developing American nation. It is a serious art form that, in its finest iterations, represents total works of art unique in and of themselves. This course expands students' knowledge of the range and diversity of the genre as codified in the middle 20th century by Rodgers and Hammerstein and their imitators. Embedded in great musical theatre pieces is the essence of what it means to be an American living in the United States at a particular time in history. Previously TA 0215.

THTR 2230 Advanced Acting 3 Credits

Prerequisite: 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. Previously TA 0230.

THTR 2250 Fashion Forward: A History of Fashionable Dress in Global Context 3 Credits

Attributes: MEVP Magis Core Exploration: VPA

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

Attributes: GDTA 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. Previously TA 0253.

THTR 2256 Stage Lighting 3 Credits

Attributes: GDTA Graphic Design: Theatre

Prerequisite: 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. Previously TA 0256.

THTR 2288 Scene Design 3 Credits

Attributes: GDTA Graphic Design: Theatre

Prerequisite: THTR 1155.

In a play, scenery provides the context, allowing the audience to connect to the characters and their dramatic journey. Not merely locale, scenery is a visual accompaniment to the action of the play. In this course, students develop their drafting, rendering and model-making skills, as these are the designer's principle communication tools. The course includes play reading, analysis and historical research. Emphasis is placed on a sound creative process, as well as grounding designs with historical accuracy. Previously TA 0288.

THTR 2900 Special Topics 3 Credits

In this class, students undertake an in-depth study of a specific problem. This might include period research, dramaturgy, a particular style of acting, a particular style of design, or other aspect of production. The course is conducted by a leading scholar/practitioner in the field. Previously TA 0300.

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. Previously TA 0240.

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. Previously TA 0395.

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. Previously TA 0399.

THTR 4999 Theatre Capstone 3 Credits

All Theatre majors, and interested minors, complete a Capstone Project designed to showcase their artistry, intellect, and expertise. The Project is normally completed in the senior years and is a major component of each student's graduation portfolio. Previously TA 0310.

Women, Gender, and Sexuality Studies (WGSS)

WGSS 1101 Introduction to Women, Gender, and Sexuality Studies 3 Credits

Attributes: MSID Magis Core: Interdisciplinary, WSGF 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

Attributes: WSGF Women, Gender, and Sexuality Studies: Gender Focused

The internship program allows students to gain on-site experience that can be related to the discipline of Women, Gender, and Sexuality Studies. Internship areas include health, publishing, communications, politics, and many other fields. Students consult the program director for a list of internship opportunities before registering for this course. Faculty supervision helps students integrate their experiences with the intellectual foundation acquired in their academic courses. Enrollment by permission only. Previously WS 0299.

WGSS 4990 Independent Study 1-3 Credits

Attributes: WSGF Women, Gender, and Sexuality Studies: Gender Focused

By arrangement with Women, Gender, and Sexuality Studies faculty, students may choose to work independently on special topics.

Enrollment by permission only. Previously WS 0399.

WGSS 4999 Capstone Seminar 3 Credits

Attributes: MSID Magis Core: Interdisciplinary, PJST Peace and Justice Studies, WSGF Women, Gender, and Sexuality Studies: Gender Focused

Prerequisite: 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. Previously WS 0301.

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