

Course	Title	Department	Sustain-focused course	Sus-inclusive course	No sus content	Description
ACCTG-120-A	Intro Financial Accounting	Economic, Accounting & Management			x	This course provides an introduction to and a basic understanding of financial accounting concepts, principles and procedures. Emphasis will be placed on the use of accounting information by creditors, stockholders, and other external parties. Course coverage includes the basic accounting cycle, accounting for inventory, receivables, long-term assets, short and long-term debt, stockholders equity, and financial statement analysis.
ACCTG-150-A	Fundamentals of Accounting	Economic, Accounting & Management			x	The course provides a basic understanding of financial and managerial accounting concepts, principles and procedures. Emphasis will be placed on the use of accounting information by management, creditors and stockholders. Course coverage includes accounting for inventory, receivables, long-term assets, short and long-term debt, stockholders equity, financial statement analysis, cost behavior analysis, manufacturing operations, budgeting and variance analysis. The prerequisite may be satisfied with a high school accounting/bookkeeping course.
ACCTG-220-A	Principles Managerial Acct	Economic, Accounting & Management			x	This course provides a basic understanding of managerial accounting concepts, principles and procedures. This course also examines the central role of managerial and cost accounting in the decision-making process of an organization. Topics include cost-volume-profit analysis, costing methods, flexible budgeting, variance analysis, inventory valuation, and cost behavior.
ACCTG-250-A	Managerial Cost Accounting I	Economic, Accounting & Management			x	
ACCTG-320-A	Business Analytics	Economic, Accounting & Management			x	This course builds on previous business analytics skills to prepare students to understand, manage, and visualize the data; apply the appropriate analysis tools; and communicate insights gained and their relevance. (same as Mgt 320)
ACCTG-353-A	Intermediate Accounting I	Economic, Accounting & Management			x	Deals with financial accounting concepts and practice. Provides an expansion of the basic fundamentals of accounting procedure. Includes intensive coverage of the asset and liability sections of the balance sheet. Student applies accounting theory, standards, principles, and procedures to accounting problems. Requires junior or senior standing.
ACCTG-354-A	Intermediate Accounting II	Economic, Accounting & Management			x	Further coverage of financial accounting concepts and practice. Includes intensive coverage of the stockholders' equity section of the balance sheet, the statement of changes in financial position, and other special topics, including pension costs, leases, and income tax allocation.
ACCTG-358-A	Managerial Cost Accounting	Economic, Accounting & Management			x	
ACCTG-368-A	Fed. Income Tax.	Economic, Accounting & Management			x	Provide an in-depth introduction to the U.S. Tax System. The primary focus of this course will be an analysis of individual income tax, with emphasis on the economic and legal effect on the individual taxpayer. Much of the material is relevant to the taxpayer in the business environment, including taxation for the entrepreneur, financial planner partnership, estates & trusts and basic concepts of corporate taxation.
ACCTG-465-A	Adv. Accounting	Economic, Accounting & Management			x	Accounting for mergers and consolidations, partnerships, foreign currency transactions, segment reporting, theoretical concepts of value and measurement, and special problems of various industries.
ACCTG-467-A	Auditing & Assurance Services	Economic, Accounting & Management			x	Emphasizes the analysis of an entity's business strategy, identification of risks, mapping of business processes, evaluation of internal controls, and the implications of each of those analyses on the quality of financial and non-financial information. The accounting profession's standards and prescribed procedures for financial statement audits are a significant component of the course. Legal responsibilities and professional ethics naturally integrate with the course content. Students learn how accounting professionals exercise judgement, examine client financial statement assertions and document a problem's analysis, the procedures applied, and the conclusions reached. Writing instruction and practice are incorporated to realistically reflect the practice of accounting. Open only to seniors.
ANTH-101-A	Cultural Anthropology	Sociology, Anthropology & Social Work		x		A study in what it means to be human, this course uses the concept of culture to account for the tremendous variety of practices and beliefs throughout the world. Students will also examine patterns in human behavior, addressing cultural similarities as well as cultural differences. Course content provides insight into how cultural anthropologists do what they do - what methods they use to study culture and what ethical issues they may encounter while doing so. Students will be expected to engage some of these anthropological methods by completing a series of ethnographic exercises. Through the study of anthropological works and practice with ethnographic methods, the course will prepare students to apply the anthropological approach as they navigate an increasingly diverse and globalized world.
ANTH-102-A	Biological Anthropology	Sociology, Anthropology & Social Work		x		Biological anthropology focuses primarily on the physical development of the human species. This course serves as an introduction to the various lines of inquiry that comprise this sub-field of anthropology. Primary topics include a survey of human biological and cultural evolution, genetics and the mechanics of evolution, non-human primates, and forensic anthropology.

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ANTH-103-A	Linguistic Anthropology	Sociology, Anthropology & Social Work		x		An introduction to human language, with an emphasis on the relationship between language and culture. Topics include the origin and evolution of language, language acquisition, language and society, and current issues in linguistic anthropology, such as language ideologies and their social, political, and economic implications. Students will gain hands-on-experience with the methods and techniques of linguistic anthropology.
ANTH-104-A	Archaeology	Sociology, Anthropology & Social Work		x		Archaeology is the study of the human past through material remains. This course introduces students to the fundamental techniques employed by archaeologists to reconstruct the past. In addition to exploring the basic methodological foundations of archaeology this course provides an overview of world archaeology, including major developments in human prehistory and significant archaeological sites.
ANTH-185-A	Culture of Capitalism	Sociology, Anthropology & Social Work	x			The ability to control fire represents one of the most important developments in the human saga. This class will explore the central issues associated with this development ranging from the evidence for the initial use and production of fire, fire's technological functions in pre-industrial societies, and a consideration of its symbolic meaning. As part of this inquiry students will research and replicate preindustrial fire making techniques.
ANTH-203-A	Environmental Anthropology	Sociology, Anthropology & Social Work	x			The study of the environment in anthropology addresses problems that not only threaten our ecology but also human existence on the planet. This course will demonstrate the importance of anthropological theory and practice for solving environmental problems and for understanding people's responses to them. The course will begin by laying the theoretical foundations of environmental/ecological anthropology. Then it will be structured around what are seen in anthropology as the key environmental questions arising from increased interaction and unequal exchange among widely different cultures: population growth, economic development and underdevelopment, the loss of biodiversity, environmental management, the future of indigenous peoples, environmental campaigns and collaborations within the context of the politics of natural resources, and the connections between consumption and globalization.
ANTH-208-A	Medical Anthropology	Sociology, Anthropology & Social Work		x		Medical Anthropology explores health, illness, disease and medicine across the globe. Using anthropological principles, we explore how medical knowledge and practices are culturally and socially constructed. Key topics of the course include: interactions between various ethnomedical systems, including biomedicine; healers and healing professions; ideologies of the body; beginnings and ends of life; the role of new biomedical technologies and the pharmaceutical industry; political and moral economies of health in the global context. Our course will focus on some key texts in medical anthropology as well as new ethnographies that address intercultural encounters in medical settings.
ANTH-209-A	Born to Run	Sociology, Anthropology & Social Work			x	Humans possess a capacity for endurance running that is virtually unmatched in the natural world. This course uses each both biological and cultural perspectives to provide insights into the "how" and "why" of running. The physiology of long distance running can only be understood by studying the larger environmental and behavioral conditions under which it evolved. Similarly, ethnographic accounts from various cultural groups provide essential insights for understanding the social and cultural dimensions of running among modern humans.
ANTH-211-A	Quan Res Methods in Anth	Sociology, Anthropology & Social Work			x	Effectively understanding cultural behavior requires asking the right questions and correctly interpreting the resulting answers. Often, the best way to address these questions requires the collection of quantitative data. This course will use case studies from cultural anthropology, archaeology, and physical anthropology, as well as student-generated research as means for learning how to design anthropologically relevant research questions, identifying the appropriate ways of acquiring the data required to successfully address these questions, and evaluating the results. Finally, we will address the ethics of anthropological research.
ANTH-301-A	Experimental Archaeology	Sociology, Anthropology & Social Work		x		The anthropological study of material culture and technology provides a wealth of information about human behavior. This course will use ethnographic analogy and experimental archaeology as tools for reconstructing a specific example of prehistoric technology. We will search for and analyze relevant ethnographic data, design and implement replicative experiments based on this data, and evaluate the effectiveness of the results for interpreting the archaeological record. In the process of recreating past technology we will explore how the analysis of material culture and technology can be used to understand topics such as cognition, social boundaries, gender, and symbolism.
ANTH-305-A	Remote Sensing in Archaeology	Sociology, Anthropology & Social Work			x	The use of technology to remotely detect and investigate archaeological data in a noninvasive manner is an increasingly important component of modern archaeological research. This class examines the history, theory, and application of various remote sensing methods, with an emphasis on near surface geophysical and aerial photography methods. Students will apply this knowledge to design and implement a remote sensing investigation of a local archaeological site and learn how to analyze, interpret, and present the resulting data.

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ANTH-306-A	Anth of Commodity Chains	Sociology, Anthropology & Social Work		x		Our class will embark on an exploration of social histories of commodity chains, such as sugar, oil, diamonds, coffee, strawberries, pharmaceuticals, and others. We will explore the ways in which commodity flows connect people, places, images, ideologies, and capital around the globe in multidirectional, hierarchical, and uneven exchange. We will contextualize the large-scale political, economic, and cultural processes in the everyday realities of particular societies and everyday experiences of regular people. In other words, this course will study globalization from below. We will address questions such as: how do men and women around the world engage with various commodities? How is globalization implicated in people's wellbeing, occupations, family lives, intimacies, futures? Our class will challenge you to think about the interactions between the issues of social justice, human rights, and the anthropological dedication to cultural rights. Ultimately, we will consider what the commodity chains mean to stability and prosperity of various communities around the world, as well as challenge us to see where we are positioned in the flow of certain commodities.
ANTH-401-A	Anthropological Theory	Sociology, Anthropology & Social Work			x	This course explores the rise of modern anthropology and the various schools of thought that have shaped the discipline, including an in-depth treatment of contemporary anthropological discourse. We will discuss the issues and approaches that define the anthropological approach as well as the ethical considerations involved in anthropological inquiry. The ultimate goal of this course is to provide students with comprehensive understanding of the field of anthropology and the skills required to negotiate current trends in the discipline. This course should be taken during the junior year.
ART-108-A	Drawing	Visual and Performing Arts			x	This course introduces basic aesthetic and technical aspects of drawing to students as they work to address the challenge of thinking and creating in two dimensions. The course will initially focus on images drawn from observation while the later part of the course will apply those skills to drawing imagination and conceptual prompts. Students will refine their visual language in drawing through critique, research, and making.
ART-185-A	Character & Environment Design	Visual and Performing Arts			x	The course will balance the basic mechanics of wheel thrown pottery and hand-building techniques with an exploration of global traditions and practices in functional ceramics. Each student will research a specific global tradition reproducing designs and forms while engaging the broader implications of visual and material culture. Student lead discussions and individual research will culminate in a presentation to the class.
ART-200-A	Painting I	Visual and Performing Arts			x	An introduction to painting methods and color theory using water and oil based materials. Contemporary issues in painting will be addressed using representational and conceptual frameworks. Context for painting language in a larger art world will be addressed through discussion, research projects, and critiques.
ART-206-A	Graphic Design I	Visual and Performing Arts			x	This course introduces students to the use of raster and vector graphics applications as advanced art-making tools. Students will produce static 2-dimensional works of art that simultaneously explore design concepts and the cognitive processes of software learning. Through regular critique students will engage in the ideation and refinement process, and through regular class discussions topics of contemporary and historical design and advertising will be explored.
ART-207-A	3D Modeling and Animation	Visual and Performing Arts			x	Course will cover computer based 3-D animation with emphasis on creative content, experimentation and critical thinking. Advanced software and hardware will be used to explore modeling, texturing, physics simulations, and animation. Offered alternate years.
ART-208-A	Life Drawing	Visual and Performing Arts			x	This studio course provides students with a thorough understanding of the structural anatomy of the human figure with emphasis on proportion, weight distribution, form and mass.
ART-210-A	Clay Sculpture	Visual and Performing Arts		x		This course is designed as a survey of ceramic methods focusing on hand-building and other sculptural processes and a variety of surfacing and glazing techniques. Aspects of ceramic history and contemporary practices will also be explored. Assignments will focus on technical applications while engaging ideas engendered in the material of clay and ceramic objects in the creation, critique and reflection of ceramic artworks.
ART-214-A	Applied Illustration	Visual and Performing Arts			x	This studio/lab course introduces students to the use of illustration across a number of disciplines and case uses. Students will be exposed to illustration in character design, animation and sequential storytelling. Course products will include character and environment sheets, short animations, info-graphics and a graphic novelette.
ART-216-A	Printmaking I	Visual and Performing Arts			x	An introduction to the aesthetic and technical considerations of the printed image through exploration of relief, intaglio, and monotype printmaking methods. The course requires students to develop a small body of work and to refine their visual language in printmaking through critique, reflection, and making.

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ART-217-A	Wheel Throwing I	Visual and Performing Arts			x	This course is an introductory pottery course focusing on the design and creation of functional ceramics following form and function. Students will explore beginning wheel and off-wheel clay forming and surfacing techniques in the making of utilitarian ceramic objects, specifically bowl and cup forms. In this pursuit, students will explore and enact aspects of Art and Design via form, function, and surface. Through midterm and final projects students will activate the creative process through research and investigation, experimentation and creation, and reflection and critique of their functional ceramic works.
ART-218-A	Photography I	Visual and Performing Arts			x	This course combines lectures with hands-on experience in digital photography. Instruction includes technical aspects of digital photography, including camera function, exposure control, and creative control, as well as discussion on the contemporary and historical impact of the medium. The format of the class includes lectures, visual presentations, lab time, individual research/presentations and regular critiques. A personal camera capable of shooting in RAW is highly recommended.
ART-239-A	ST:Photo Before Digital Age	Visual and Performing Arts			x	This course will explore Chinese art from the Late Qing (mid-19th century) through the present, with particular emphasis on artists, works of art, and the institutional, social, artistic, and theoretical contexts from which they emerged. The course will focus on ways in which Chinese artists of the twentieth and twenty-first centuries have defined modernity and their tradition against the complex background of China's history. The course will also examine how Chinese artists have chosen to adopt Western conventions and the extent to which they have rejected them. Through examining art works in different media, including oil painting, graphic design, woodblock prints, traditional ink-and-color painting, and recent performance, installation and video art, along with theoretical writing, bibliographical and institutional data, and other documentary materials, the course will investigate the most compelling of the multiple realities that Chinese artists have constructed for themselves. By learning about the complexity of modern and contemporary Chinese art, and the historical forces behind them, students will gain fuller understanding of twentieth-century modernism.
ART-290-A	Art Cul Pers:Eur Art Hist	Visual and Performing Arts			x	A studio course focused on drawing from direct observation of Italian masterworks in museums and special collections across central and northern Italy. Students will study form and application of media as used in the early to late Italian Renaissance. Critiques and study of drawings created during the course will help students understand how the Italian Masters laid the foundation for our understanding of Western art and how Renaissance methods can be applied to students' creative works. Prerequisite: Art 108 or permission of instructor.
ART-306-A	Graphic Design II	Visual and Performing Arts			x	Through a combination of digital and analog media, students will create applied design projects integrating multimedia tools to convey ideas and to generate original content. The course emphasizes image-based concept development, interactive design, planning for print and digital media, and the development of art direction skills.
ART-317-A	Adv Wheel Throwing	Visual and Performing Arts			x	This course will continue to build from the content and skills acquired from Art 217 in the pursuit of individual style and voice in the production of functional ceramic objects. This advanced course will have greater emphasis on independent original work as guided by shared prompts and course content. Students with significant experience outside of Luther College are encouraged to inquire about the Consent of Instructor registration option.
ART-318-A	Photography II	Visual and Performing Arts			x	This studio course will be a further exploration of photography. Assignments will become more self-directed. Exploration of new techniques and materials, such as film based work or alternative printing methods, will be stressed in the course. Connections to photographers of note, both current and historically relevant, will be made through the work created by the students.
ARTH-252-A	Global Art History	Visual and Performing Arts			x	This course will introduce students to the different styles and functions of global art from ancient times to the present day. Using a case study approach, we will be selective rather than comprehensive. We will examine the major monuments and artworks from Africa, the Americas, Asia, Europe and other regions across the world. The course will be a combination of lecture and discussion, prompted by various in-class activities designed to help students critically engage the art, our readings, and the techniques of art history.
ARTH-266-A	Hist of Photography	Visual and Performing Arts			x	From photography's invention in 1839, artists have both celebrated the medium and feared its effect on their craft. This class will trace the development of photography throughout the twentieth century from its artistic beginnings in America with the Photo-Secession movement, to the mid-century adoption of a 'straight' aesthetic, to the ascendancy of photography in a post-painting art world.
BIO-112-A	Insects, Humans & Environment	Biology		x		A study of relationships among insects, humans, and the environment. Using insects as a model, basic biological concepts are presented. Discussions cover why insects are so successful and important, giving attention to their behavior, evolution, ecological roles in nature, and impacts on human societies and culture. Using an investigative approach to learning insect biology, students develop an understanding of the nature of science by engaging in scientific inquiry, and evaluate claims as scientific studying a variety issues that involve and affect insects. Laboratory includes field trips.

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BIO-113-A	Human Biology in Context	Biology			x	This course will provide an introduction to the human body as it functions independently and within broader environmental, cultural, and economic contexts. The course will explore the scientific method and human body systems to build a biological framework for understanding ethical and practical issues related to development, aging, and disease. This course is intended for students who wish to study human biology but do not expect to major in the discipline of biology. Students may not earn credits for both Bio 113 and Bio 114.
BIO-115-A	Human Anatomy	Biology			x	A basic gross anatomy course including dissection of the cat with reference and comparison made to human organ systems. For non-biology majors. Lectures and laboratory.
BIO-116-A	Intro to Human Physiology	Biology			x	A survey of physiological systems and principles with specific reference to the human body. This course is intended for non-biology majors. Lectures and laboratory.
BIO-139-A	ST: Biology of Cancer	Biology			x	Bacteriophage, or phage, are viruses that specifically infect bacteria. This blended lecture/laboratory course will engage students in inquiry-based research to discover novel bacteriophage. Starting with a spoonful of dirt, each student will ultimately identify their very own phage. Through simple and accessible laboratory techniques, students will get to see first hand what it is like to be a scientist.
BIO-151-A	Prin Bio:Eco/Evol/Biodiv	Biology		x		An exploration of the diversity of life, its origins, and interactions among organisms and their environment. Students develop an understanding of the iterative nature of science by engaging in inquiry in the laboratory and field, analyzing data, reading the primary literature, and communicating results. Students explore the line separating science from values and other forms of understanding through analysis of societal issues connected to ecology, evolution, and biodiversity. Designed as an introduction for biology and related majors; required for the biology major and minor.
BIO-152-A	Principles: Molecules/Cells	Biology			x	Cells serve as the building blocks of all biological systems, so understanding cellular biology is critical to comprehension of life systems. This course examines the structural and chemical composition of cells, processes related to cellular metabolism and homeostatic control. Laboratory methods reinforce concepts and increase students' ability to design experiments, analyze data, and communicate results in written form. Designed as an introduction to biology; required for biology major and minor. Lectures and laboratory.
BIO-190-A	Clinical Microbiology	Biology			x	An introduction to the study of microorganisms with a focus on pathogens and infectious disease. Bacterial, eukaryotic, and viral diversity, structures, metabolism, and replication strategies are covered. Additional topics include principles of disease, mechanisms of pathogenicity, immunology, and control of microbe growth. Students develop an understanding of the nature of science, engaging in inquiry through developing hypotheses, analyzing data, and evaluating scientific claims related to the field of clinical microbiology. Lecture and laboratory. Students may not earn credit for both Bio 190 and Bio 243.
BIO-201-A	Genetics	Biology			x	A study of Mendelian genetics, gene structure, mechanisms of gene expression, mutagenesis, evolutionary genetics, and genomics. Lectures and laboratory.
BIO-230-A	Fluorescence Microscopy	Biology			x	A lecture and laboratory introduction to the history, principles, and research applications of fluorescence microscopy. Students will learn the fundamental principles of widefield and confocal fluorescence microscopy, and will apply their knowledge in the context of a guided research project under the mentorship of the instructor. Additional emphasis will be placed on critical reading and discussion of relevant primary scientific literature.
BIO-240-A	Ecology of the Southwest	Biology	x			Field study of the ecology of the arid Southwest, with a focus on adaptations of organisms to arid conditions and understanding the challenges of setting environmental policy. Course activities include hiking in the deserts, mountains, and riparian areas of Arizona; daily readings and discussions; a paper exploring the ethical dimensions of environmental policy; and a research project including statistical analysis of data. Students who earn credit for BIO 240 may not earn credit for BIO 140. Fulfills Paideia 450 when students with junior or senior standing enroll in POLS 258 in the following term. Fulfills (R) research requirement in the biology major. Offered alternate years during January term.
BIO-243-A	Microbiology	Biology		x		A basic introduction to the study of microorganisms and the principles of immunology and virology. Laboratory includes the study of basic cell processes and the identification and culturing of typical forms. Lectures and laboratory. Fulfills (R) research requirement in the biology major.
BIO-247-A	Marine Biology	Biology		x		An introduction to the biology of coral reef and other marine environments of the Caribbean. Daily snorkels, SCUBA dives, and lectures introduce students to the identification, ecology, behavior, and conservation of marine organisms and environments. Students develop and complete research projects. Several days are spent on the Luther campus for pre-trip orientation and post-trip completion of projects. Consent of instructor required. Fulfills (R) research requirement in the biology major.

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BIO-250-A	Restor & Conserv Biology	Biology		x		This course is an introduction to restoration ecology and conservation biology, with a primary focus on ecological principles used in restoring human-altered landscapes and conserving natural habitats. Secondly, it considers basic policy and non-governmental avenues for the protection of biodiversity. Class is a combination of lecture, discussion, and lab. Discussion includes scientific literature and case-studies. In lab, students put theory into practice to develop restoration and conservation plans for local sites in a semester-long project. Requires sophomore standing or above. Fulfills both (W) writing and (R) research requirement in the biology major.
BIO-251-A	Entomology	Biology		x		An introduction to the biology and diversity of insects, particularly the life histories, form and function, ecology, and behavior of various insect groups found in various habitats. Students interested in developing field biology skills should take this course during their sophomore or junior year. Fulfills both (W) writing and (R) research requirement in the biology major.
BIO-252-A	Botany	Biology		x		A study of the anatomy, physiology, and evolution of the major groups of plants with an emphasis on field identification of seed plants. Students interested in developing field biology skills should take this course during their sophomore or junior year. Lectures and laboratory. Laboratory includes field trips that require hiking.
BIO-255-A	Human Physiology	Biology			x	An in-depth exploration of physiological systems in the human body, beginning at the cellular level and proceeding to physiological systems and their role in homeostatic control. Students may not earn credit for BIO 255 and BIO 262. Lectures and laboratory.
BIO-256-A	Biostatistics	Biology			x	This course considers the application of statistical inference to the life sciences; numerous examples will be taken from the health sciences and environmental sciences. Emphasis will be on experimental design, hypothesis testing, and the communication of results verbally and with appropriate graphs. Lectures and laboratory.
BIO-258-A	Vertebrate Nat Hist	Biology		x		A study of the classification, natural history, and distribution of the vertebrates. Laboratory emphasizes identification and field study of species typical of this geographical area. Lectures stress principles of vertebrate biology. Fulfills both (W) writing and (R) research requirement in the biology major. Offered alternate years.
BIO-260-A	Experimental Neuroscience	Biology			x	This course will use a variety of experimental techniques and model systems commonly used in neuroscience research to explore concepts fundamental to the development and systems organization of the human nervous system. Students will be exposed to immunohistochemistry, structural analysis, behavioral assays, neuroanatomy, and electrophysiology. Concepts such as experimental design, data analysis, and research ethics will also be discussed. Fulfills both (W) writing and (R) research requirement in the biology major.
BIO-262-A	Environmntl Animal Physiology	Biology		x		This course will examine the homeostatic control mechanisms of organ systems across species lines. Additionally, the course will focus on the molecular, cellular and systems adaptations that allow animals to live in particular environments. Lectures and laboratory. Students may not earn credit for BIO 262 and BIO 255. Fulfills (W) writing requirement in the biology major. Offered alternate years.
BIO-301-A	Human Dissection & Anatomy	Biology			x	An in-depth gross anatomy course that includes dissection of a human cadaver. Skeletal, muscular, nervous, digestive, cardiovascular, respiratory, and urogenital systems will be covered. Lectures and laboratory. Requires junior or senior standing.
BIO-354-A	Evolutionary Biology	Biology		x		An exploration of current questions in evolutionary biology through lecture, lab, and discussion of the primary literature. Topics include the role of natural selection and drift in human evolution; inferring the origins of new diseases; the effects of genomic conflict on speciation; and the challenges that hybridization poses to understanding the tree of life. Fulfills both (W) writing and (R) research requirement in the biology major.
BIO-356-A	Genomics	Biology			x	An introduction to the principles of genome science and the application of genomic data in diverse biological fields. We explore topics such as high-throughput sequencing technologies, genome projects, genome structure and function, genome expression and the transcriptome, and evolution and genome change. We also discuss social impacts and ethical implications of the increased use of genomic data, with topics ranging from direct-to-consumer personal genomics to paleogenomics. Students gain hands-on experience with some of the popular tools and databases available for bioinformatics analysis, as well as basic Unix and R coding. Students complete a semester-long research project to generate, analyze, visualize, and interpret high-throughput sequence data. Fulfills both (W) writing and (R) research requirement in the biology major. Lectures and laboratory.
BIO-362-A	Neuroscience	Biology			x	The course explores the means by which neurons function and how they form circuitry related to sensory input, motor control and higher cognitive functions. A second component of the course is devoted to the role of primary literature within the field of neuroscience, including how hypotheses are formulated, tested and the results conveyed to the scientific community. A non-lab course.
BIO-363-A	Molecular Biology	Biology			x	This course examines molecular functions, gene expression, and regulation from an evolutionary perspective emphasizing structure-function relationships. Laboratory emphasis. Lectures and laboratory. Fulfills both (W) writing and (R) research requirement in the biology major.

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BIO-364-A	Cell Biology	Biology			x	A study of the biochemical and structural basis of cell activity. Close attention is given to protein structure and function as well as organelle activity. The laboratory stresses the use of biochemical and cytological techniques to study living systems at the cellular and molecular levels of organization. Lectures and laboratory. Fulfills both (W) writing and (R) research requirement in the biology major.
BIO-365-A	Ecology	Biology		x		A study of the complex patterns and processes in the natural world. We examine questions about the distribution and abundance of species and communities, the transfer of matter and energy in ecosystems, and how these relate to biodiversity. Lectures and laboratory. Laboratory includes field trips requiring hiking and directed research projects. Fulfills both (W) writing and (R) research requirement in the biology major.
BIO-367-A	Endocrinology	Biology			x	This course will emphasize the role of hormones in maintaining homeostasis. We will examine the chemical messengers most relevant to human biology, and explore the structure, sites of synthesis and the mechanisms by which hormones exert their effects. Finally, through laboratory exercises, students will directly utilize current research methodologies to examine the role of hormones in physiologic control systems. Fulfills (W) writing requirement in the biology major. Offered alternate years.
CHEM-141-A	Essentials of Chemistry	Chemistry	x			A one-semester general chemistry class for students who require or wish to take just one semester of college chemistry with a laboratory component. Topics will be chosen from the Chemical Principles sequence (Chemistry 151-152) as well as some organic and biochemistry. Laboratories will introduce students to basic chemistry lab skills and techniques. This course is not intended for students going on in chemistry or biology. Algebra skills are assumed. (Students who earn credit for CHEM 141 may not earn credit for CHEM 114, 151 or 152).
CHEM-151-A	Chemical Principles I	Chemistry			x	The first course of a two course introductory chemistry sequence with a laboratory component. This course provides an overview of key chemistry principles and develops the necessary skills to apply chemical concepts and think critically to solve pertinent chemical problems. (Students who earn credit for CHEM 151 may not earn credit for CHEM 114 or 141).
CHEM-152-A	Chemical Principles II	Chemistry			x	General course intended primarily for students concentrating in the science area. Algebra skills are assumed.
CHEM-201-A	Advanced Chemical Principles	Chemistry			x	A faster paced introduction to Chemistry than CHEM 151 and 152. Material from both CHEM 151 and 152 will be included, but basic chemical knowledge and competence in algebra will be assumed. Lab will emphasize an introduction to several instruments and to data-handling with spreadsheets. Prerequisite: a good high school chemistry course and testing into at least MATH 151 on mathematics placement test. In order to have a full year of chemistry as required by many professional schools students must take CHEM 202 in addition to this course. (Students who earn credit for 201 may not earn credit for CHEM 114 or 116).
CHEM-202-A	Analytical Chemistry	Chemistry			x	An introduction to quantitative analysis with laboratory. The course provides a detailed examination of equilibrium chemistry and its application to gravimetry and titrimetry. The theory and practice of chromatographic separations and spectroscopic detection are introduced.
CHEM-241-A	Organic Chemistry I	Chemistry			x	The first of a two-course sequence that examines the structure and reactivity of compounds containing carbon. Topics include bonding, nomenclature, conformations, stereochemistry, and organic acid/base chemistry. An introduction to reaction mechanism and reaction pathways is achieved through the study of the reactivity of aliphatic hydrocarbons. Spectroscopic identification of organic molecules by IR and NMR spectroscopy is also examined in detail. Three lectures per week, one three-hour lab a week.
CHEM-242-A	Organic Chemistry II	Chemistry		x		The second of a two-course sequence that examines the structure and reactivity of compounds containing carbon. Topics include the reactivity of aromatic hydrocarbons and molecules containing the carbonyl functional group; parallels between the behavior of these compounds and biomolecules are illustrated. Emphasis is placed on reaction mechanisms and the design of multi-step organic syntheses. Three lectures per week, one three-hour lab per week.
CHEM-301-A	Biochemistry I	Chemistry			x	An introduction to the chemistry of the four major classes of biological molecules: proteins, sugars, lipids, and nucleic acids. The relationship between the functional roles of these molecules and their structure and reactivity will be examined using the chemical principles mastered in the prerequisite courses of general chemistry and two semesters of organic chemistry. This course will fulfill the one-semester biochemistry prerequisite of typical health professional programs.
CHEM-361-A	Physical Chemistry	Chemistry		x		This course is an introduction to the topics in physical chemistry, including classical thermodynamics, chemical kinetics, atomic and molecular structure and energetics, and quantum mechanics
CHEM-372-A	Inorganic Chemistry	Chemistry			x	A course including molecular and solid-state bonding and structure, molecular symmetry, and coordination and organometallic chemistry.
CHIN-101-A	Beginning Chinese	Modern Languages & Cultures			x	This course offers an introduction to speaking, reading, listening to, and writing Chinese. Through the study of the language, the student will also gain an appreciation of Chinese culture and contemporary life.

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CHIN-102-A	Beginning Chinese	Modern Languages & Cultures			x	This course offers an introduction to speaking, reading, listening to, and writing Chinese. Through the study of the language, the student will also gain an appreciation of Chinese culture and contemporary life.
CHIN-246-A	Chin Cinema & Chin Modern	Modern Languages & Cultures		x		From the fall of the Celestial Empire to the rise of China's economy today, Chinese cinema has witnessed many social changes in the modern era. This course will focus on the interaction between Chinese cinema and the process of modernization. By examining how Chinese films dialogue with Hollywood, it will explore Chinese people's experiences of semi-colonial modernity, socialist modernity and postsocialist/global modernity. Students will watch select films made in mainland China, Hong Kong and Taiwan. Along with reading and writing assignments, students will be required to do oral presentations. All films have English subtitles. All readings are in English. (same as FCUL 246 and IDS 246)
COMS-130-A	Interpersonal Communication	Communication Studies			x	Since communication in relationships is tied to life satisfaction and success, this course provides an introduction to person-to-person interaction in the interpersonal communication field. Students begin to explore aspects of self and communication (e.g., culture, verbal, nonverbal) in relation to personal relationships in multiple contexts (e.g., friendships, family, romantic, workplace).
COMS-132-A	Public Address	Communication Studies			x	This course examines the principles of speech composition, organization, delivery, and critique. The primary aim of this course is to situate students as critical participants in a variety of public dialogues, dialogues that are crucial to the continued health of a democratic society. Emphasizing critical thinking, thorough research, and rhetorical strategies, students develop their own speaking voice through a series of public performances.
COMS-133-A	Media Literacy	Communication Studies			x	This course considers how and why media matters. The focus is on engaging, analyzing, and evaluating mediated texts and practices, in addition to articulating and cultivating arguments about their cultural, political, and social merits. The course includes lectures on programs, audiences, institutions, and contexts, as well screenings and discussion.
COMS-185-A	Kryptonite/Cowls/Crus	Communication Studies			x	This course examines social support and supportive communication: interactions and messages designed to provide comfort, often in response to stressful life events. How do we as humans seek and provide support with friends, family, and coworkers? How do we comfort others through stressful life-transitions such as break-ups, or challenges in school and work? How does supportive communication affect our health or relationships? We will explore these questions by reading scholarship on social support examining what constitutes more or less supportive communication. We will analyze and identify features of supportive communication through reflections of our own lives and analysis of textual or media examples along with class discussion and student presentations.
COMS-232-A	Superheroes SJW	Communication Studies			x	This course explores the way superhero narratives contribute to an understanding of contemporary life. Through an in-depth analysis of mediated artifacts (e.g. comic books, films, and television programs), as well as an exploration of the approaches taken by popular culture theorists and critics, students examine how dominant societal discourses, cultural myths, individual identities, and institutional ideologies are reinforced and challenged. (same as IDS 232).
COMS-233-A	Rhetoric of Spirituality	Communication Studies			x	Engaging a variety of traditions (e.g. Christianity, Judaism, Islam, Buddhism, Taoism, Wicca, New Ageism), Rhetoric of Spirituality explores the relationship between communication, U.S. American popular culture, and spiritual practice. Utilizing the fundamentals of rhetorical analysis--close textual reading, thematic interpretation, and critical judgment--the course examines the role of religion and spirituality in public dialogue. Throughout the course, students study how popular spiritual texts like political speeches, feature films, television shows, and written works contribute to the communicative creation, maintenance, and reconceptualization of self, other, and spiritual ideologies.
COMS-234-A	Popular Culture	Communication Studies			x	This course examines the intersection of rhetoric, popular culture, and broader cultural contexts. During the course of the semester, students explore how people employ popular culture texts (e.g. film, television, fashion, music, architecture, public art) as a means of constituting, negotiating, and transforming the cultures and communities in which they live.
COMS-239-A	ST:Tourism Ethnography Hawaii	Communication Studies			x	This hybrid course, combining online and experiential learning, examines the growth of tourism in the Driftless region, an unglaciated geographical landscape in southeast Minnesota, southwest Wisconsin, northeast Iowa, and northwest Illinois. To better understand the expansion of visitor interest in the unique area, topics such as mediated representations, consumer actions, recreational opportunities, leadership initiatives, and sustainability considerations will be addressed via lectures, discussions, excursions, adventure activities, and interactions with key tourism stakeholders. Ultimately, these undertakings will provide an in-depth framework as to how and why the Driftless, with its distinct terrains, communities, and resources, is a place to value, to preserve, and to celebrate.

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COMS-240-A	Cultivating Quality Communicat	Communication Studies			x	This is a student-driven course whereby students determine interpersonal areas (such as personal, romantic, small group, workplace, and other interpersonal communication contexts) in which they create opportunities to develop and improve quality interpersonal communication skills (for example network and job shadow, create and test a relational improvement self-disclosure guide, work in a small group to create a community building experience on campus). Because of the experiential and out-of-class aspects of the course, students must have flexibility in their schedules during January.
COMS-241-A	Comm and Adven New Zealand	Communication Studies		x		This course investigates the relationship between communication and adventure recreation in New Zealand. Specific communication-related focuses on media and technology, consumer culture, globalization, and nation building will be addressed through a variety of adventure activities that highlight community sustainability, risk benefit factors, experience-based judgment, ethical behavior, and effective leadership. Information on these subjects will be drawn from lectures, discussions, and interviews, as well as participation in adventure excursions. Ultimately, these undertakings will provide an in-depth framework on how New Zealand uses its unique places, landscapes, and resources to brand itself as a destination for outdoor exploration. (Same as LS 241)
COMS-258-A	Video Production	Communication Studies			x	This course explores video production, primarily single-camera field production and editing. The focus is on narrative as communication, message-centered content, and technical expertise. The course includes lectures on phases of production, screen composition, and color temperature, training sessions on lighting techniques, sound recording, and post-production, as well as screenings and discussion.
COMS-260-A	Communication and Sport	Communication Studies			x	This course draws from scholarly work in critical media studies, relational studies, and sociology to examine cultural, political, and social roles of sport in contemporary society. The focus is on how sport, as well as mediated sport, can be approached critically and read in different ways. The course includes lectures on nationalism, commodification, and identity, as well as screenings and discussion.
COMS-330-A	Family Communication	Communication Studies			x	In this course, students will examine the role of communication in families, how families shape us as individuals, and how the context of family functions in larger society. Through reading scholarship on family communication, discussion, projects and presentations, we will address questions such as how definitions of family have changed overtime, how individuals define self in relation to family members, how challenges in families are managed, how differences in family forms influence family function, and how communication patterns affect how we interact with and understand each other. Ultimately, this course investigates individual human behavior and human interactions within the societal context of the family.
COMS-333-A	Rhetoric Identity&Difference	Communication Studies			x	This course examines the role of rhetoric in such significant identity categories as race, ethnicity, sexuality, gender, nationality, and ability. Focusing on historical and contemporary political discourse, protest movements, and media representations, students examine how people navigate individual, cultural, and national identities as they strive for social justice.
COMS-335-A	Masculinity in Film	Communication Studies		x		This course takes a feminist perspective to analyze portrayals of sex and gender in film with a particular emphasis on representation of men and masculinity. The focus is on how films construct different notions of gender, how films can be read in different ways, and to what social uses film portrayals may be put. The course includes lectures on film criticism, gender theory, and theories of representation, as well as screenings and discussion. (Same as IDS 335)
COMS-353-A	Argumentation and Eloquence	Communication Studies			x	The course takes a rhetorical perspective on argument. Basic principles of argumentation are explored: problem solving through evidence, reasoning, and persuasion. Analysis and criticism of various types of contemporary speech-making based on principles, models, and theories of argumentation.
COMS-356-A	Rhetorical Criticism	Communication Studies			x	This course examines key concepts in the area of rhetorical theory and methods. Grounded in classical and contemporary texts, students explore the function of rhetoric in relation to knowledge, community, governance, and power. Throughout the course, particular attention is given to the way specific methodological approaches help explore the relationship between rhetoric and social transformation.
COMS-358-A	Documentary Storytelling	Communication Studies			x	This course builds on video production skills developed in COMS-258. The focus is on researching, scripting, planning, producing, and editing short subject documentary films. The course includes lectures on the history of the genre, exemplar filmmakers, and dramatic structure, training sessions on shooting, interviewing, and advanced editing, as well as screenings and discussion.
COMS-362-A	Relational Theories and Method	Communication Studies			x	This course is a combination of studying advanced relational communication theories and learning and implementing social scientific research methods (such as interviewing and survey data collection and qualitative and quantitative data analysis). By reading and researching relationship theory and engaging in collecting and analyzing data, students will focus on the connections between theories of relationships while learning research methodologies to understand the complexities of communication in human relationships.

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CS-150-A	Intro to Computer Sci	Computer Science			x	An introduction to computer science emphasizing problem solving, data organization, and data transformation using quantitative and algorithmic methods. Problems are selected from a variety of areas of human knowledge. Students will learn to model, analyze, and process data generating information with algorithms implemented using a general-purpose programming language. Students will be introduced to object oriented programming.
CS-160-A	Algorithms and Data Structures	Computer Science			x	A continuation of the ideas presented in CS 150 with particular emphasis on data structures, algorithms, and analysis. Implementation of abstract data types such as stacks, queues, trees, and graphs as well as important recursive and non-recursive algorithms. Analysis of sorting and searching algorithms.
CS-252-A	Object-Oriented Prog With Java	Computer Science			x	Introduction to Java and development in an object-oriented programming language. Topics include project setup and organization, packages, classes, object creation, inheritance, interfaces, polymorphism and the use of built-in types and the Java class library. Considerable time is dedicated to learning incremental programming, debugging strategies, testing strategies, interface documentation, preconditions, postconditions, boundary case testing, unit testing of individual functions, test stubs and test harnesses.
CS-260-A	Computational Models	Computer Science			x	In this course we examine mathematical structures that are relevant to understanding both theoretical as well as practical ideas in computer science. Topics include: logic, sets, graph theory, regular languages, deterministic and nondeterministic finite automata, regular grammars, regular expressions, induction and recursion, pushdown automata, turing machines, and computability.
CS-260-A	Computational Models	Computer Science			x	In this course we examine mathematical structures that are relevant to understanding both theoretical as well as practical ideas in computer science. Topics include: logic, sets, graph theory, regular languages, deterministic and nondeterministic finite automata, regular grammars, regular expressions, induction and recursion, pushdown automata, turing machines, and computability.
CS-330-A	Internet Programming	Computer Science			x	This course covers the three-tier architecture of Internet applications, including user interface, server-side logic, and data storage. Modern programming languages, libraries, frameworks, and application programming interfaces are used to develop and deploy web applications. Current development principles and practices are discussed and used in this project driven course.
CS-360-A	Adv Algorithms and Data Struct	Computer Science			x	Development of advanced data structures, parallel algorithms, and advanced analysis of algorithms. Included topics are B-trees, Tries, B+ and B* trees, hashing algorithms and other structures for dealing with large data sets. Algorithms for data set manipulation including parallel algorithms for processing data sets.
CS-370-A	Programming Languages	Computer Science			x	A comparison of the structure, design, and applications of various programming languages. Topics include history, language definition, formal models of syntax and semantics, data types and structures, data abstraction, control structures, data flow, and runtime considerations. Languages will be discussed in a logical organization based upon the major paradigms including imperative, logic, functional, and object oriented. Examples from classic and contemporary languages.
CS-430-A	Computer Networks	Computer Science			x	Concepts, principles, protocols, and applications of computer networks with a focus on the Internet, including application layer protocols such as http, smtp; socket programming and peer-to-peer networks; transport-layer protocols such as TCP, UDP and congestion control; network layer algorithms for routing and broadcast, and multicast; link-level protocols for local area networks such as Ethernet and WIFI; and issues in network privacy and security.
CS-440-A	Database Management Systems	Computer Science			x	This course takes a bottom-up approach to understanding a complex software system. The course examines the implementation of a database management system. Topics include disk and file management, transaction processing, meta-data management, query planning and implementation, parsing queries, indexing, query optimization, and B-trees.
CS-450-A	Operating Sys and Arch	Computer Science			x	A study of computer architecture and operating systems structures and algorithms emphasizing multiple-user systems. Topics include binary number systems, digital logic circuits, machine architecture and assembly language, process management, CPU scheduling, concurrency and multi-tasking computing concepts including communication and synchronization issues, storage management, and protection and security.
DAN-105-A	Mvmt Fund I:Prac Align Func	Visual and Performing Arts		x		An introductory movement course exploring vital integrative connections between somatic practice and performance preparation. Somatic skills including dynamic alignment and functional anatomy provide the groundwork for embodied movement exploration. The study and practice of dynamic alignment and embodied anatomy unfolds new relationships between physical function and expression. (Same as IDS 105)

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DAN-130-A	Contact Improvisation	Visual and Performing Arts			x	This course is an introduction to the fundamentals of contact improvisation, a dance form that explores elements of physical contact among participants while challenging preconceptions about the gendered body. Emphasis will be placed on finding mindful and physical ways to prepare to be "ready" to dance: cultivating a quiet core amidst the wilderness of physical disorientation; finding the root of levity, contact point, weight sharing, and physical pathways into the floor and air; and focusing attention on the details of sensation. Students will engage in egalitarian practices for building physical skills of trust, receptivity, and responsiveness, as well as physical tolerance for waiting in the unknown. (Same as IDS 130)
DAN-140-A	Identity & Movement Analysis	Visual and Performing Arts			x	This course introduces the student to basic principles and elements underlying dance and movement expression and experience for analyzing the moving body in the spontaneous to the performative. Students investigate from the role of "witness-spectator" or "participant-observer" how the body is both generative to identity and a location for identity through various structures (both live and recorded) of mundane, social, cultural, theatrical, ritualized, dance and movement practices. The relationship between the inner motivation of movement and the outer expression of the body is analyzed to understand intellectual, emotional, and physical responses. (same as IDS 140)
DAN-305-A	Mvmt Fund III:Prac Vocab Int	Visual and Performing Arts			x	This is an advanced movement course focusing on crystallizing performance skills through the development of individual movement versatility and invention. Practice of technique builds from somatic skills and contemporary dance vocabulary through both technical phrasing and improvisational scoring. Depth of integrative practice prepares the mover to refine movement vocabulary and clarify movement vocabulary and intention. This course may be repeated. (Same as IDS 305)
DS-120-A	Introduction to Data Science	Computer Science			x	An introduction to the discipline of data science through case studies and hands-on experience. Students will see examples of real data science and will gain an understanding of the theory and practice. They will also use simple tools and techniques to begin to understand the complexities of data manipulation, modeling, and visualization.
DS-320-A	Data Analysis & Visualization	Computer Science		x		A tool based approach to data manipulation, modeling, machine learning, and visualization using one or more packages such as matplotlib, pandas, d3.js, scikit-learn. Topics include data extraction, discovery, cleaning, machine learning algorithms, training procedures, prediction, and visualization. Specific application to real data sets in native formatics from actual data sources.
DS-420-A	Applied Machine Learning	Computer Science			x	This course provides students with fundamentals of Machine Learning. It covers traditional machine learning algorithms (e.g., linear regression, logistic regression, support vector machine, decision tree); ensemble learning (e.g., voting, bagging, random forest, gradient boosting, stacking); dimensionality reduction (e.g., principal component analysis, local linear embedding); and simple neural networks (e.g., multilayer perceptron).
ECON-130-A	Principles of Economics	Economic, Accounting & Management		x		An introduction to the uses of economic theory in the analysis of problems emergent in large societies. Specific topics include consumer choice, decision making by firms in price taking and price searching situations, and inflation and aggregate employment analysis.
ECON-185-A	Everyday Economics and You	Economic, Accounting & Management				In this course, students will explore how economics can apply to everything from current policy debates to the decisions we make in our everyday lives. Students will discuss front-page news, best-selling books, podcasts, and other media and learn to make sense of the world around them by applying concepts from economics.
ECON-242-A	Economic Numeracy	Economic, Accounting & Management			x	In this course students will learn the foundational theory necessary to research, analyze, and evaluate economic theory. Students will be introduced to fundamental concepts in probability and statistics, and will begin to develop their research skills. The course draws on economic principles, and prepares students for higher level statistic-based courses.
ECON-247-A	Intermediate Macroeconomics	Economic, Accounting & Management			x	The course examines the factors influencing the aggregate level of national income, employment, and inflation from a variety of perspectives. Topics include short run business cycles, long run growth, and fiscal and monetary policy. There is an emphasis on connecting theory to current macroeconomic events.
ECON-248-A	Interm Economic Theory:Micro	Economic, Accounting & Management			x	A theoretical approach to understanding how consumers and firms make decisions and how those decisions affect the economy and our society. Topics include consumer theory, the theory of the firm, industrial organization, equilibrium, and market failures.
ECON-255-A	Environmental Economics	Economic, Accounting & Management	x			The application of economic principles to environmental issues. Valuation of environmental damage and environmental improvements, including non-market approaches. Methods of environmental regulation, such as taxes, standards, and transferable permits. Other topics such as climate change and species loss may also be covered.

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ECON-261-A	Financial System	Economic, Accounting & Management			x	The course provides a conceptual foundation to help students understand the logic and operation of the financial system and the impact it has on the economy. The focus of the course will be on financial markets (especially debt and equity markets), financial institutions (banks and other institutions that facilitate the exchange of money and capital), and government and central bank policy.
ECON-262-A	Development Economics	Economic, Accounting & Management	x			This course focuses on the issues facing developing nations. We will use both theoretical and empirical methods to address questions such as: What does it mean to "develop?" Why does so much of the world's population live in extreme poverty? What are their lives like? What can be done to speed development?
ECON-268-A	Law and Economics	Economic, Accounting & Management			x	Laws are meant to create incentives for people to act a certain way and economics is the study of how people respond to incentives. These two disciplines are brought together to provide a fresh perspective on how legal rules affect people's actions and work to achieve social objectives. Instruction will be primarily through the discussion and analysis of legal cases on topics such as property, contract, tort, crime, and civil liberties.
ECON-272-A	Economics of Inequality	Economic, Accounting & Management	x			This course uses economic tools to help students better understand the nature, causes, and consequences of inequality. In addition to exploring various ways to define and measure inequality, students will critically examine possible explanations for inequality including technology and education, globalization, discrimination, and other structural factors. Policies to address inequality will also be discussed.
ECON-333-A	Econ of Inform and Networks	Economic, Accounting & Management			x	In this course, students develop the skills to describe networks and analyze their influence on economic behavior and well-being. The course draws heavily on the economic concept of externalities and its effect in a variety of network contexts: economic, social, and political. Topics include contagion, information and financial networks, inequality, polarization, and globalization.
ECON-342-A	Introduction to Econometrics	Economic, Accounting & Management			x	An introduction to the techniques of econometric analysis. Students will learn to use techniques of statistical significance and regression to test theories and draw inferences from economic and other social science data. Topics include simple and multiple linear regression, multicollinearity, autoregression, and heteroscedasticity.
ECON-362-A	International Trade	Economic, Accounting & Management			x	The course applies economic models to fundamental questions about globalization such as: Why do countries trade with each other? When trade does occur, is it good or bad, and for whom? How do different government policies affect trade? Additional topics are likely to include outsourcing and supply chain fragmentation, trade agreements and free trade zones, and currency markets.
EDUC-115-A	Clin Exp I in the Schools	Education			x	The clinical experience requires that students work as active and involved observer-aides under teachers in public/private area schools. Concentrated instruction in preparation for these duties plus seminars accompany the experience. Seminars include the following topics: ethics, professionalism, an introduction to program competencies; and dispositions, including reflective practice. Students taking this course in January must complete application materials in the education department by October 1 to secure a placement for January term.
EDUC-185-A	Clinical Exp I in Area Schools	Education			x	This course examines teaching and learning in 21s
EDUC-215-A	Clin Exp I in Schools	Education			x	The clinical experience requires that students work as active and involved observer-aides under teachers in public/private area schools. Concentrated instruction in preparation for these duties plus seminars accompany the experience. Seminars include the following topics: ethics, professionalism, an introduction to program competencies; and dispositions, including reflective practice. Students taking this course in January must complete application materials in the education department by October 1 to secure a placement for January term. Requires sophomore standing. First-year students are to enroll in EDUC 185 (first-year seminar) offered during January term.
EDUC-220-A	Educational Psychology	Education			x	This course is an introduction to the field of education and to educational psychology. The course includes the study of human growth and development within the context of schooling. Emerging teachers enrolled in the course will investigate how children learn, the importance of inclusive learning environments, and the relationship between learning theory, practice, and social and academic development. Topics will include: characteristics of effective teaching; cognitive, language, and social development; assessment; classroom management; culturally sustaining pedagogies; and ethical teaching practices.
EDUC-221-A	Equity & Inclusion	Education		x		This course addresses topics related to equity and inclusion in schools, including stereotypes, prejudice, discrimination, privilege, power, and oppression in regards to culture, race, ethnicity, language, religion, disability, gender, identity, sexual orientation, and socioeconomic status. Emerging teachers will explore how intersecting issues such as racism and ableism impact student learning opportunities and outcomes. Significant legislation, models of service delivery, and instructional modifications will be introduced so that emerging teachers are prepared to meet the needs of all students.

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EDUC-222-A	Instruct Strategies Comp Apps	Education			x	Planning for effective instruction and classroom environments is the focus of this course. Students learn basics of pedagogy such as writing lesson plans aligned with standards, objectives, and assessments; planning research-based instructional techniques; and integrating electronic media to enhance learning. Application of learning theory and investigation of classroom management are also incorporated. Requires sophomore standing.
EDUC-224-A	Methods Mus Art PE Well EI CI	Education			x	This course presents methods for integrating music, visual arts, & physical education/wellness across the curriculum in grades K-6. The benefits and challenges of integrating visual, performing arts, movement, and wellness in daily teaching and learning activities in the elementary classroom will be addressed. This may include classroom instruction and field experiences with children.
EDUC-229-A	Intro. to Literacy	Education			x	Based on a synthesis of research identifying characteristics of highly effective literacy teachers, this course focuses on research-based approaches to effective reading/writing instruction: teacher knowledge, classroom assessment, evidence-based teaching practices, response to intervention (RTI), motivation and engagement, technology and family & community connections. The importance of oral language acquisition, phonemic awareness, phonics and word identification, fluency, vocabulary, comprehension, writing and assessment is also addressed. Web-based dyslexia training is required in this course. This course also fulfills the writing course for elementary majors.
EDUC-242-A	Learning Dis/Behavioral Issues	Education			x	This K-12 introductory course includes a historical perspective to the field of learning disabilities and behavioral disorders. This course covers characteristics and etiology, definitions and identification procedures, treatment and intervention, instructional and behavioral methodologies, impact of the disability throughout the lifespan, and current issues in the field.
EDUC-325-A	Elementary Mathematics Methods	Education			x	This course is an introduction to the pedagogy of a NCTM standards-based mathematics program in the elementary/middle school and the content described by the Common Core State Standards for Mathematics. The course focuses on the content strands of statistics/probability, data analysis, and number operations and includes planning, teaching, assessment, diagnosis and evaluation of student learning in mathematics. This course presents current best-practice, research-based instructional methods in mathematical processes, the use of technology in teaching/student learning, and classroom management as it applies to mathematics. Teaching content area strategies within the context of methods coursework provides elementary majors with a model for integrating critical reading and writing instruction within the context of the mathematics discipline.
EDUC-326-A	Elementary Lang Arts Methods	Education			x	This course is an introduction to oral and written communication for the twenty-first century, including the Common Core State Standards for English Language Arts, the curriculum and pedagogy of a language arts program based on standards established by the International Literacy Association and the National Council of Teachers of English, and the eight components of the language arts in the elementary classroom. It will include integration of the language arts (to include reading/literature, writing/grammar, speaking, viewing, listening and spelling), the use of technology in teaching language arts, and classroom management as it applies to language arts instruction. The course utilizes a comprehensive approach that examines language acquisition and development. Teaching content area strategies within the context of methods coursework provides elementary majors with a model for integrating critical reading and writing instruction within the context of the language arts discipline.
ENG-130-A	Lit Vent: Tales of Transform	English		x		Writers of all genres call on their memories for material, and in the course we will explore the different tools that memory presents, both in existing literature and in our own writing. We will explore memory in short stories, graphic novels, essays, and poetry, from James Baldwin to Jhumpa Lahiri and plenty in between. We'll discover why a writer might employ the same memories in a memoir and a book of poetry, or why someone might switch from nonfiction to fiction smack in the middle of a narrative. We'll ask whether the line between fiction and nonfiction really matters at all. We'll even explore the nature of memory. Can people inherit memory? Do our senses contain memory? Can a culture remember? And what do we do when memory fails?
ENG-147-A	Lit of the African Peoples	English		x		Modern African writers are some of the most dynamic and innovative writers as they draw from and respond to different literary traditions, such as their own oral and written traditions, as well as European models. This course serves as an introduction to the various themes and styles of written literature of the 20th century. Central to discussion will be an analysis of gender within various African cultural contexts. Understanding constructions of masculinity and femininity, dominant female and male roles in society, and the ways in which the works challenge traditional norms of gender will be priorities within applied theoretical approaches. (Same as AFRS 147 and IDS 147)

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ENG-185-A	Words for People	English			x	When we hear immigrants referred to as "illegals," that word shapes how we think about that group of people. It deflects our attention from important aspects of their humanity and directs it toward a single focus: their legal status in the US. There are many other examples of this phenomenon; in fact, we use reductive terms for many groups of people: snowflakes, welfare queens, gun nuts, social justice warriors, feminazis, thugs, Jesus freaks, and so on. How does this use of terminology exploit our biases, affect our thinking, and guide our policies? How are people affected by the labels we give them? And given how problematic it is for us to label others, why do we do it? What is behind this human tendency? Drawing from sociolinguistics, rhetoric, psychology, and political science, this course examines the wide-ranging causes and effects of the terminology we choose to refer to people.
ENG-211-A	Writing for Media	English			x	A comprehensive course in news writing, reporting, and writing for media. Focus on the issues and skills central to journalism and professional writing for various media. Readings and examples from newspapers, on-line and print magazines, and electronic journalism.
ENG-212-A	Creat Writ:Poetry & Fiction I	English		x		An introductory course in the writing of poetry, fiction, and creative nonfiction. Writing will include experiments in each genre and in-class exercises in craft inspired by a variety of readings in contemporary poetry and fiction. Student work will be discussed in a workshop format.
ENG-214-A	Professional & Techn Writing	English			x	This course introduces the concepts and strategies essential for the writing of instructions, proposals, fact sheets, and other types of professional correspondence. Students will communicate complex subject matter to specific audiences, lay and technical, in print and digital formats. The course will show how a professional writer's work is always rhetorically situated. Professional documents are not simply static templates waiting to be filled with information. They move through networks of real people and organizations, each with different needs, priorities, and cultural values, and are transformed along the way. By examining case studies of professional and technical writing in real-world situations and applying what they learn to their own work, students will become more attentive to the audiences of their writing.
ENG-230-A	How Lit Works:An Intro	English			x	Literature invites us into experiences and worlds familiar and strange. This course introduces students to careful reading, to discussion, and to writing about literature: both classics and little-known treasures. The course is open to any student wishing to cultivate perceptive reading and writing.
ENG-231-A	Film	English		x		This course explores the world of film experience and cultivates visual media savvy. We will examine a wide range of films, from early moving-image media and Hollywood classics to Indie flicks, bleeding-edge documentaries, and global cinema from "Metropolis" and "Citizen Kane" to "Crouching Tiger, Hidden Dragon" and "13th". Students will practice analyzing films in terms of history, techniques, and critical approaches in order to develop a broad knowledge of film as an intersection of art, technology, and industry that holds great power to move us.
ENG-232-A	Film in Focus	English		x		
ENG-239-A	English Monsters	English			x	We tell stories to help us make meaning in our lives and give us a sense of who we are in the communities in which we live. Stories in South Africa are especially powerful, given its history of apartheid, resistance, and the transition to a non-racial democracy less than 20 years ago, and stories remain important in this country that is always becoming something new. In this course we will seek to understand South Africa by seeing, hearing, and collecting stories from a rich diversity of story-tellers and sources including writers, and musicians; museums and sites of history, science, and art; and ordinary individuals young and old from various ethnic and racial backgrounds. Students will tell their own stories in a course journal and final paper. Course sites will be Johannesburg, the Eastern Cape, and Cape Town.
ENG-240-A	Africana Women's Writing	English			x	A study of writing by selected Africana women writers from Africa, the Caribbean, the United States and elsewhere in the African diaspora. Topics may vary by geographic region or theme. (Same as AFRS 240 and IDS 240)
ENG-245-A	Literature and Gender	English		x		A study of how writers from different historical periods use a range of literary genres to address gender in the private and public world. The course looks at how literature both presents and critiques culture and its construction of gender, as well as how it offers new visions and choices for individuals and communities. Readings include core essays in feminist literary studies, as well as texts from writers across a spectrum of gender and sexual identities. Students can expect lively discussion, creative projects, and opportunities to reflect on the applicability of their reading to their own lives. (Same as IDS 245)

Course	Title	Department	Sustain-focused course	Sus-inclusive course	No sus content	Description
ENG-251-A	African-American Literature	English		x		A survey of African-American literature, drawing primarily from 19th, 20th, and 21st century works. Contributions from authors such as Frederick Douglass, Harriet Jacobs, David Walker, Zora Neale Hurston, Ralph Ellison, Toni Morrison, and Ta-Nehisi Coates combine their artistic craft with acute interrogations of their socio-political environments. Thus, the course focuses on how both fictional and non-fictional Black literature grounds itself in its respective historical context and addresses themes of social justice. Class discussions will pay special attention to the intersection of race, class, and gender as writers engage with this struggle to achieve the American promises of freedom and equality (Same as AFRS 251 and IDS 251)
ENG-260-A	Shakespeare	English		x		For four centuries Shakespeare has been celebrated as the greatest writer in English. This course will help students more fully understand the power of his plays, both as literature for reading and scripts for performance. Reading plays in each major type (comedies, tragedies, and histories; typically seven to eight plays), we will explore such topics as language, moral vision, gender, politics, and historical context. Students will have the opportunity to explore their interpretations in writing and by staging a scene.
ENG-263-A	In Frankenstein's Footstep:	English		x		Mary Shelley composed her famous novel Frankenstein (1816) amid a whirlwind of personal turmoil, important friendships, and significant travel. This course will retrace the path of her journeys from childhood to Frankenstein, visiting sites associated with her and her circle - including John Keats, Percy Shelley, and Lord Byron - in London, Geneva, Venice, Florence, and Rome, as we investigate the relationships between an author's historical and imaginative realities.
ENG-312-A	Creat Writ:Poet & Fiction II	English		x		An advanced-level course in the writing of poetry, fiction, and creative nonfiction for students dedicated to making imaginative, emotional, and technical discoveries in the practice of their craft. Readings in contemporary poetry, fiction, and creative nonfiction, as well as in-class exercises and student workshops.
ENG-314-A	Rhetoric Hist/Theory/Practice	English			x	
ENG-334-A	Young Adult Literature	English		x		Study of literature for young adults (ages 12-18), with emphasis on reading of representative fiction, creative nonfiction, and poetry. Course also includes history of the genre, interpretive approaches to texts, resources, and materials for teaching. Designed for teaching majors; useful for others working with young people.
ENG-361-A	Chaucer & Medieval Literature	English		x		From heroes fighting monsters to Arthurian romances, medieval literature is best known for its stories of chivalry. Less well-known but equally wonderful are the comic tales of people having sex in trees and greedy friars dividing a fart. Readings in this course include the heroic epic of Beowulf, narrative poems about love and adventure by Marie de France, the tale of Sir Gawain and the Green Knight, and several of Chaucer's Canterbury Tales. We will particularly explore how these medieval texts construct sex, gender, and sexuality. We will also examine how 21st century fantasies of the medieval period have generated mistaken ideas about race and ethnicity. Centuries have passed, but medieval constructions of identity continue to inform our lives in powerful ways today. (Same as IDS 361)
ENG-364-A	Milton & New Engl Lit	English		x		This course explores British literature from England's most famous epic, Paradise Lost (1667) through the next century. Writers in this period were wildly creative, inventing new genres: journalism, travel writing, biography, and the novel. 18th-century literature was a crucible for modern understandings of gender, race, and class. Along with Milton, authors may include Dryden, Behn, Swift, Pope, Fielding, Burney, and Haywood. In the course you will join in critical and historical conversations, and cultivate in your writing a lively and scholarly voice.
ENG-365-A	British Lit: 1780-1850	English		x		
ENG-366-A	Victorian & Modernist Lit	English			x	
ENG-367-A	Postcol Brit Lit-1950-Pres	English			x	
ENGR-150-A	Intro to Physics/Engineering	Physics			x	Students are introduced to fundamental principles of physics, science, and engineering, with an emphasis on the iterative, self-correcting process that leads to the development of new physical theory and the applications that derive from that theory. Topics will range from Newtonian mechanics to quantum mechanics, molecular systems and materials, and computational/algorithmic thinking, with an emphasis on the myriad devices and systems that grow out of this work and underpin modern society. The course carries no mathematical prerequisite but mathematical concepts will be introduced and developed. Project work will be developed in the laboratory. (Same as PHYS 150)

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ENGR-251-A	Statics	Physics			x	This class focuses on the analysis of static equilibrium problems related to engineering structures. Involves vectors and scalar treatment of 2D and 3D force systems. Covers particle and rigid body equilibrium, equivalent force systems, truss and frame analysis, distributed forces, and internal forces.
ENVS-133-A	Environmental Conservation	Environmental Studies		x		An introduction to conservation of the natural environment, with emphasis on ecological principles and applications. Students investigate how environmental health, biodiversity, ecosystems, water and soil are influenced by innate characteristics, and individual, cultural, and societal decisions. Students encounter scientific inquiry through published literature and data, case studies, and lab-based investigations. Laboratory/field trips emphasize the ecology of major habitats of northeastern Iowa and human efforts to solve environmental problems.
ENVS-134-A	The Earth System	Environmental Studies		x		This course is an introduction to the natural and human-influenced processes that govern the interactions among the components of the Earth system: the solid earth, water, the atmosphere, and life. We will covers topics such as geologic hazards, sedimentary processes, mineral and energy resources, and global climate change, all with an emphasis on the ways in which Earth system processes both impact and are impacted by human activities. Laboratories include field-based investigations of Earth system processes in northeast Iowa.
ENVS-150-A	Sustainable Energy Home	Environmental Studies	x			In this project-based course, students will collect and analyze household energy data in order to develop a detailed plan for improving home energy efficiency and progressing toward carbon neutrality. More broadly, students will gain the knowledge and skills needed to understand the essential role of household decision-making in the transition to a clean energy system, while also exploring associated energy justice issues and their potential solutions. The course will serve to help students improve basic energy literacy as citizens and learn about the diverse types of work being done within many professions to accelerate the clean energy transition. Students will develop skills in quantitative problem solving, collaborative learning, and written communication.
ENVS-175-A	Introduction to GIS	Environmental Studies		x		This course is an applied practicum in geospatial technology that fosters effective use of Geographic Information Systems. Students who successfully complete the course will be able to create, manipulate, and manage geographic data to perform analysis tasks, to visualize geographic data, and to use geographic data analyses to support decision making.
ENVS-185-A	The Good Life?	Environmental Studies		x		What is "the good life" and how do individuals envision and pursue it? This course examines this question in an experiential way through three intersecting paths: 1) Exploring the "back to land" movement in Northeast Iowa through field trips and hands on experience at homesteads in the area; 2) Learning about "life design" and "design thinking" techniques as one model for creating a "good life" for yourself"; 3) Reflecting on climate change and related challenges of the "anthropocene" that provide a unique context for thinking about the good life in a changing world.
ENVS-215-A	Environmental Education	Environmental Studies		x		An introduction to the theory and practice of environmental education while providing a foundation in environmental science inquiry and content. Emphasis is placed on learning local and regional natural history as well as phenology and ecological processes. Students will engage in the process of scientific inquiry throughout the course, integrate interdisciplinary approaches to understanding and teaching about the environment and gain a foundation in place-based education. Students learn methods necessary to effectively teach about the natural world and as well as in the scientific processes we use to better understand it.
ENVS-220-A	Earth System Biogeochemistry	Environmental Studies		x		In this course we will focus on the interacting biological, chemical, and geologic processes that combine to control the properties and behavior of the atmosphere, ocean, and terrestrial environments. Students will apply chemical principles to understand both natural and anthropogenic influences on surface environmental conditions such as nutrient availability, soil and water quality, chemical pollution, ocean chemistry, and global climate. Students will also learn how chemical tracers can be used as tools for understanding environmental processes both now and in the Earth's geologic past. Labs emphasize techniques for chemical analysis and environmental problem solving.
ENVS-225-A	Earth's Clim:Past, Pres Fut	Environmental Studies		x		What are natural and anthropogenic controls on the climate system, how has the Earth's climate varied in the past, and how will the climate system respond to anthropogenic influences? This course includes an introduction to the climate system, an exploration of the Earth's climate history, and a consideration of how the study of past climates informs our understanding of future climate change. Additional emphasis will be placed on the tools used by climate scientists to understand both past and future climate change. Labs include a combination of field exploration of the local geologic record, laboratory analyses, and computer-based data and modeling exercises.

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ENVS-240-A	Env Issues Pac NW	Environmental Studies	x			This course examines environmental issues in the Pacific Northwest and the policies that are used or proposed to address them. Case studies - on issues such as wilderness, endangered species, mining, hydroelectric dams, water rights, public land management, salmon and Native treaty rights, and outdoor recreation - will be used to better understand the political process in the United States, the role of economics in addressing environmental issues, and the particular challenges in human-nature relations within the intermountain west. Students will also develop an environmental justice lens, exploring questions of equitable access to and engagement with a healthy environment as core considerations in the environmental politics of the Pacific Northwest. The course will be taught at Holden Village, an ecumenical retreat center in the Cascade Mountains of Washington state. As such, students will also explore and interrogate Holden Village as a model of a just and sustainable community. Students who previously have taken one of the Envs 239 courses at Holden Village will not be permitted to enroll in this course.
ENVS-248-A	Rivers and Society	Environmental Studies	x			Rivers are important environmental, cultural, and economic features in the landscape, yet we struggle to manage them sustainably. Using rivers as an integrating element, the course draws from multidisciplinary perspectives to understand social dependence on river systems, as well as human modification and management of river environments. In particular, we will examine cultural meanings of rivers in the arts; the politics of dams; rivers and pollution policy; water rights and water conflicts; fishing culture and fisheries policy; and river recreation and restoration. We will ground our examination in case studies of rivers, ranging from the local Upper Iowa River, to the Mississippi, to major river systems of the world, such as the Ganges, the Yangtze, and the Nile.
ENVS-250-A	Sustainability, Syst & Solut	Environmental Studies	x			This course will draw upon concepts in systems thinking to cultivate skills for sustainability and problem solving. Through applied case studies grounded in NE Iowa, students will analyze and practice the ways that communities can work to create more sustainable solutions and systems. Students will work in teams on key sustainability issues such as water, energy and climate, food systems, and social sustainability in order to hone skills in systems thinking, communication, research, data analysis and information literacy. This course serves as an integrative experience that will build common capacities and skills for students in upper level environmental studies coursework, such as the junior/senior seminar. This course is a prerequisite for ENVS 485.
ENVS-258-A	Environmental Politics & Polic	Environmental Studies	x			In this course, students will build skills to analyze and develop environmental policies in diverse contexts such as water, agriculture, climate & energy, and biodiversity conservation. As a foundation to these inquiries, we will explore the unique nature of environmental policy challenges as collective action problems, where debates over knowledge, identity, economics, and equity are central. Further, students will become familiar with both the enduring and shifting politics of the environment. We will take a future-oriented approach to our study, thinking in particular about the possibilities and opportunities for shaping a more just and sustainable world through the use of environmental policy. This course is primarily grounded in the environmental politics of the United States, but does explore international environmental politics in the context of climate change.
ENVS-320-A	Soils Earth Sys and Environ	Environmental Studies		x		Soils form an interface between the atmosphere, hydrosphere, lithosphere, biosphere, and anthrosphere, making them critical to Earth system and environmental processes ranging from plant growth to groundwater recharge to the flux of greenhouse gases to the atmosphere. Students will gain a basic understanding of soil formation processes and of the relationship between soils and other components of the Earth system, including key biogeochemical cycles (the carbon, nitrogen, and phosphorus cycles), the climate system, and hydrologic processes. During labs, students will conduct field description of soils, interpret the environmental history recorded in soil profiles, and design and complete an original research project. Offered alternate years.
ENVS-485-A	Seminar	Environmental Studies		x		
FCUL-139-A	Nordic Tales and Traditions	Modern Languages & Cultures			x	This course is a survey of the history and culture of Denmark and Norway. The first half of the course will focus on the history of the region including topics such as the Vikings, Dano-Norwegian union and modern Norway. The second half of the course will explore the contemporary culture, language and geography of the region. The course will be taught on campus during the second half of spring semester. In groups, students will be asked to conduct independent research and present their findings in class. Students will also be expected to complete readings related to course topics. These readings will provide the basis for active and engaging in-class discussions. The course will be graded Cr/NC.

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FCUL-185-A	Enlightenment to Magic Kingdom	Modern Languages & Cultures			x	This course will focus on the rise of Soviet dictator Josef Stalin (1879-1953) and the Great Terror that resulted in the deaths of approximately 20 million Soviet citizens. Attention will be given to the "Cult of Personality" and the conditions that allowed a dictatorship and state terror for many years. Could such a scenario be possible again? The course will be supplemented by film (Russian and American), literature, and memoirs.
FCUL-210-A		Modern Languages & Cultures	x			
FCUL-239-A	Latin American Culture	Modern Languages & Cultures		x		
FCUL-246-A	Chin Cinema & Chin Modern	Modern Languages & Cultures			x	From the fall of the Celestial Empire to the rise of China's economy today, Chinese cinema has witnessed many social changes in the modern era. This course will focus on the interaction between Chinese cinema and the process of modernization. By examining how Chinese films dialogue with Hollywood, it will explore Chinese people's experiences of semi-colonial modernity, socialist modernity and postsocialist/global modernity. Students will watch select films made in mainland China, Hong Kong and Taiwan. Along with reading and writing assignments, students will be required to do oral presentations. All films have English subtitles. All readings are in English. (same as CHIN 246 and IDS 246)
FCUL-250-A	Topics in Nordic Literature	Modern Languages & Cultures		x		This course will offer reading and discussion of literature of various genres, authors and time periods of Norway and other Nordic countries. Topics will change annually and rotate. Students may enroll in the course multiple times for credit (and count towards the major/minor in Nordic Studies), provided that the topic is new. The course is taught in English and readings are in English. Students who have completed NORST 202 may elect to enroll in NORST 250 for extra assignments in Norwegian.
FCUL-339-A	Nordic Fiction and Food	Modern Languages & Cultures		x		This course will offer reading and discussion of literature of various genres, authors and time periods of Russia and the USSR. The course is taught in English and readings and writing assignments are in English.
FREN-101-A	Elementary French I	Modern Languages & Cultures			x	A practical approach to the French language, in which the student begins speaking French from the first day and completes the year with a basic ability to speak, write, read, and understand French.
FREN-102-A	Elementary French II	Modern Languages & Cultures			x	A practical approach to the French language, in which the student begins speaking French from the first day and completes the year with a basic ability to speak, write, read, and understand French.
FREN-203-A	Written Expression	Modern Languages & Cultures			x	Focus on developing skills in writing and reading comprehension in a variety of Francophone cultural contexts.
FREN-210-A	Cinema for French Conv	Modern Languages & Cultures			x	In this course students will view and discuss films from the French and Francophone world. Exercises aimed at improving students' speaking and writing skills will also include close analysis of cinematic technique and cultural controversies.
FREN-220-A	French Art	Modern Languages & Cultures			x	In this course students will study and discuss works of art from the French and Francophone world by reenacting famous Parisian "Salons" using the RTTP pedagogy. Exercises aimed at improving students' speaking and writing skills will also include analysis of principles of artistic design in the context of revolutionary cultural changes.
FREN-230-A	French for Social Change	Modern Languages & Cultures		x		This language course focuses on the acquisition of the French lexicon used in the areas of development and social change to equip students with the language tools needed to work with NGOs and development organizations. Course materials are designed to enhance the student's oral skills. Readings and RTTP simulations center on development questions in the Francophone world with a particular focus on migrants' experience. Through both classroom and field oriented activities, students will study the history of social movements in the Francophone world (May '68, Yellow Vests...) and investigate development theory, social entrepreneurship, and transnational networks that arise from migration.
FREN-343-A	France: Rel & Secularism	Modern Languages & Cultures			x	This course examines the French concept of "laïcité", or secularism, concentrating on whether this republican requirement has led to the exclusion of religious minorities from the French public sphere. Specific topics will include examples of citizens who seek to practice their faith, be it Islam, Judaism, or Protestantism, within the various spaces of the Republic. The course will include a role-playing simulation exploring the ban of the Muslim headscarf in French schools in order to explore how non-Muslims in France portray Muslim women's understandings and experience of the sacred and divine, and what these portrayals also reveal about French conceptions of faith and identity.

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GER-101-A	Identity and Language	Modern Languages & Cultures			x	Who are the Germans? Who are you when you speak German? How does language allow us to be ourselves? Explore personal and cultural identity in the German-speaking world. Develop basic language skills (speaking, listening, reading, writing) to be able to communicate in everyday situations.
GER-102-A	Community and Language	Modern Languages & Cultures			x	How do German-speakers live in community? How and where can you fit in? How are communities formed by language? Explore traditions, institutions and lifestyles in the German speaking world. Continue to develop cultural competency and basic language skills (speaking, listening, reading, writing) to be able to communicate in everyday situations.
GER-210-A	Ger Act:Welcome to DACH	Modern Languages & Cultures			x	Welcome to DACH: Do you want to learn more about Germany (D), Austria (A) and Switzerland (CH)? Explore the past and present of these German-speaking countries as you improve your own German skills. (German 210 can be taken twice with different topics.)
GER-340-A	German Play	Modern Languages & Cultures			x	Students will write and perform a play or a film in German. Emphasis is on writing, oral expression, pronunciation, and review of advanced grammatical structures. Offered on a rotating basis.
HES-126-A	Human Perf Nutr	Health and Exercise Sciences			x	A comprehensive course emphasizing fundamental aspects of nutrition and explores the practical application of nutritional concepts related to health, fitness, and human physical performance. This course includes discussion of the basic nutrient groups, supplements, nutritional labeling, energy balance, dietary planning, food safety, food and society, food production and sources, malnutrition in the United States and the world, gastrointestinal disorders and their effects on nutrition. Students will implement knowledge of nutrition into dietary planning and prescription for specific situations. Previously HP 126. Students may not earn credit for both HP 126 and HES 126.
HES-260-A	Adaptive Phys Act	Health and Exercise Sciences		x		A study of the physiological, cognitive, and behavioral factors affecting learning and development. The primary emphasis is on experiential learning. Luther students work individually with young students (ages 3-18) from area school districts to adapt activities to their specific needs. Previously ES 260. Students may not earn credit for both ES 260 and HES 260.
HES-264-A	Kines & Biomech	Health and Exercise Sciences			x	Study of human movement and the mechanical principles, both kinetic and kinematic, as they apply to human motion. Identification of muscles, planes of movement, description of motion, levers, and internal and external forces as they apply to motion. Previously ES 264. Students may not earn credit for both ES 264 and HES 264.
HES-323-A	Prin Strength Trng & Cond	Health and Exercise Sciences			x	A study of the structural and functional factors related to training adaptations associated with various physically active populations. This course meets objectives for National Strength and Conditioning Association (NSCA) and American College of Sports Medicine (ACSM) certifications. Previously ES 323. Students may not earn credit for both ES 323 and HES 323.
HES-324-A	Prin Fit Assess	Health and Exercise Sciences			x	Instruction of fundamental principles of fitness testing, development of practical assessment skills and interpretation of results based upon National Strength & Conditioning Association (NSCA) and American College of Sports Medicine (ACSM) health-related fitness assessment protocols and recommendations, including pre-participation screenings, anthropometric measures, flexibility, anaerobic muscular fitness, proprioceptive capabilities, and aerobic capacity. Previously ES 324. Students may not earn credit for both ES 324 and HES 324.
HES-340-A	Exer Tech	Health and Exercise Sciences			x	This course will be taught in accordance with the principles recommended by the National Strength and Conditioning Association (NSCA) and American College of Sports Medicine (ACSM). Course content will include principles of anaerobic and aerobic training techniques and experiential learning in technique assessment and development. Topics will include flexibility, strength, power, anaerobic capacity, aerobic capacity, speed, agility, balance and stability.
HES-343-A	Motor Learning	Health and Exercise Sciences			x	The principles of motor development over the lifespan including motor control and motor learning are presented with emphasis on qualitatively examining how the interactions of the individual, environment, and task bring about changes in a person's movements. Focus areas will address growth benchmarks, activities of daily living, gait, and influence of disease. Previously ES 343. Students may not earn credit for both ES 343 and HES 343.
HES-366-A	Phys Exer	Health and Exercise Sciences			x	Designed to provide scientific background and laboratory experience essential for understanding the nervous, muscular, cardiovascular, and respiratory system responses and adaptations to physical stress. Previously ES 366. Students may not earn credit for both ES 366 and HES 366.
HES-372-A	Adm Mgmt Hlth & Fit Progr	Health and Exercise Sciences			x	Administrative and management issues confronting professionals in the health and fitness industries will be explored. Organizational issues including policies and procedures, scheduling, facility and personnel management, financial and legal considerations, and marketing will be examined. Previously HP 372. Students may not earn credit for both HP 372 and HES 372.
HES-425-A	Prog Design & Period	Health and Exercise Sciences			x	Didactic and application in the design and development of periodized exercise programs for athletic, occupational, and special populations.

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HIST-111-A	Survey of US History Part One	History		x		This course surveys American history from the early colonial period to the end of Reconstruction in 1877. Topics are wide-ranging and include the geographic and social evolution of the New England colonies, the Middle Colonies, the Chesapeake, and the Lower South into coherent regions with different economies, social structures and cultural attributes. The course then explores how these various regions successfully cooperated politically with one another long enough to engage in an independence movement that separated them from Great Britain and created the United States. But political, economic and social differences lived on into the nineteenth century, however, and became the basis for the geographic and sectional conflict which erupted into Civil War in 1861. The course closes with the political and economic successes and failures of Reconstruction policy as a bridge to later American history.
HIST-112-A	Survey of US History Part Two	History		x		This course surveys American history since Reconstruction, exploring transformations in American geography, politics, economics, society, and culture. The course has, as a unifying theme the question of how and why people have defined the American nation in different ways, and how those ideas have related to race and gender. Topics covered include the end of the westward expansion after the Civil War, Indian resistance, industrialization, the Populist political movement, immigration, the successes and failures of the Progressive movement, the First World War, African American migration and cultural innovation, the cultural turmoil of the 1920s, the Depression and New Deal, the Second World War at home and abroad, the Cold War, the Civil Rights Movement, feminism, other social movements, the Vietnam war and the anti-war movement, cultural politics in the 1970s, the Reagan Revolution and the 1980s culture wars, Republican and Democratic party battles of the 1990s, 9/11 and its aftermath, and the Iraq and Afghanistan Wars.
HIST-126-A	Human Geography	History			x	Geography is the study of where things are located on the earth's surface and why they are located there. Thus the content of human geography is essentially everything one finds throughout the disciplines of the Social Sciences, but approached from the perspective of spatial arrangement. Geographers ask two simple questions: Where are people and activities located across the world? Why are they located there? Human Geography places special emphasis on these questions as they relate to human beings and human political, economic, social, and cultural activities.
HIST-135-A	African-American History	History		x		This course is a survey of African-American history from the 15th century to the present. Eras and topics include the trans-Atlantic slave trade, slavery in the Americas, the Civil War and Emancipation, segregation, the Great Migration, the Great Depression and World War II, the modern black freedom struggle, and the post-civil rights era. The class emphasizes how African Americans constructed individual and collective selves, created livelihoods, formed families, communities, and institutions, fashioned cultures, defined citizenship, and consistently defied notions of a monolithic "black community." Centering African Americans' words, actions, and artistic creations and the ways they interacted with other cultures and peoples within the Americas and abroad, this course investigates how African Americans shaped and were shaped by the many worlds they traversed. (Same as AFRS 135 and IDS 135)
HIST-149-A	Europe to 1648	History			x	An introductory survey of European history from ancient Greece to the end of the "Religious Wars" (and the Peace of Westphalia) in 1648. Topics will include: Greece from the Bronze Age to the Hellenistic Empires, Ancient Rome (Republic and Empire), Medieval Europe, the Renaissance, and the Reformation and the Age of Religious Wars.
HIST-150-A	Europe, 1648 to the Present	History			x	An introductory survey of European history from the end of the wars of religion in the seventeenth century to the present. Topics will include: the Scientific Revolution; the Enlightenment; Absolutism and the Emergence of the Parliamentary Government; the French Revolution and Napoleon; Reaction and Revolution in the early nineteenth century; The Industrial Revolution; Nationalism and Unification; the "New Imperialism" and the Coming of World War I; the "Thirty Years War of the Twentieth Century"; Postwar Europe: Cold War and Integration. Of central importance will be the study of primary sources in context.
HIST-161-A	East Asian History	History			x	An introduction to the basic themes and content of East Asian history, from the earliest times to the present. Students will explore the lives of both great and ordinary people who lived in what are now China, Japan, Korea, and Vietnam. Students will consider how empire, international trade, relations of production, and ideologies affected the construction and reproduction of social and cultural groups. Offered alternate years. (Same as IDS 161)
HIST-162-A	South Asian History	History			x	An introduction to the basic themes and content of South Asian history from the earliest times to the present. Students will explore the lives of both great and ordinary people who lived in what are now Afghanistan, Pakistan, India, Bangladesh, Sri Lanka, Nepal. Students will consider how empire, international trade, relations of production, and ideologies affected the construction and reproduction of social and cultural groups. Offered alternate years. (Same as IDS 162)

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HIST-163-A	Modern Middle East History	History			x	Students in this course investigate the history of the Middle East, including Iran, Turkey, and northern Africa. The course begins with the Mongol sack of Baghdad in 1258, but its focus on the nineteenth and twentieth centuries allows students to understand the cultural and material processes that inform current events. The course provides important historical context for intellectual discussion among the Abrahamic traditions and requires students to consider social, economic, and cultural factors that may find expression in religious canon and practice.
HIST-171-A	History of Africa to 1880	History		x		Survey of African history from the earliest times to roughly about 1880. The course begins with the historical development of Africa's still-vital cultural, linguistic, social, and economic systems and moves on to examine the Islamic and Christian impact on these systems through the era of the Atlantic slave trade. The course concludes by discussing the ways in which early European colonialism affected the African past. (Same as AFRS 171 and IDS 171)
HIST-172-A	History of Modern Africa	History		x		This course surveys the history of sub-Saharan Africa from the 1880s to the present. The course examines African life under European colonial domination (from about 1880 to about 1960) and under independent states which succeeded colonial governments after 1960. A primary aim of this course is to explore the diversity of human experience in Africa during the colonial and post-colonial periods. The course makes use of several primary documents to portray ways in which men and women have dealt with the challenges of living in 20th- and 21st-century Africa. (Same as AFRS 172 and IDS 172)
HIST-185-A	History and Memory	History			x	This course will explore representations and interpretations of China in Western travel accounts from the 13th century to the present. It will examine the way in which the image of "China," and by extension any country, is not a fixed and unchanging entity, but rather a set of representations that are
HIST-236-A	Asian American History	History			x	This course provides an overview of Asian American and Pacific Islander history, from the eighteenth through the twentieth century. Students will place the migration of Asian people to the United States into the contexts of the migration of Asians to other destinations in the Americas; of missionary work in the Pacific and Asia; of xenophobia and racism in the United States; of US military action in Asia during WWII, the Cold War, and afterwards; and of ethnic and racial identity formation in the US after 1965. Topics will be approached from the perspectives of cultural, economic, political, and social history; students analyze the content and contexts of primary sources to illustrate and explain these topics and perspectives.
HIST-239-A	The Civil War Era	History			x	This course offers a survey of the causes, course, and consequences of the American Civil War. Students will examine the period as a moment of revolutionary change in the United States by moving beyond the battlefield to examine the profound transformations that the war produced in American politics, society, economy, and culture. The course will pay particular attention to the ways in which race, class, and gender shaped competing visions of American society throughout the period. Students will explore how these interrelated forces also influenced the course and consequences of the Civil War itself, while examining both primary source texts and the changing ways that historians have understood this period. Unprecedented bloodshed and mass mobilization of society on both sides forced Americans to rethink their relationships with political, economic, and cultural institutions. Finally, the course will examine how the revolutionary changes brought by emancipation and Reconstruction fundamentally reshaped structures of power in the post-slavery world. (Same as IDS 239)
HIST-241-A	Rome: Republic and Empire	History			x	A survey of the Roman Republic and Empire, concentrating on the social and economic background of Rome's rise and fall as well as on the military and political aspects of expansion and decline. Special emphasis on the Punic and Mecedonian Wars, civil war and the end of Republic, Roman influence on France and Britian, Christianity in the imperial period, and Roman interaction with the Germans. Offered alternate years.
HIST-248-A	The Viking Age: Then and Now	History			x	Our image of the Vikings is based both on historical realities and more modern constructs. This course will investigate both. The first half of the course will focus on "The Viking Era," c. 780-1070 CE, beginning with the pre-history of Scandinavia and then moving to the origins of Viking society and culture and the technological advancements that allowed for its dissemination. It will follow Viking expansion via trade, invasion, and settlement into areas from the North Atlantic to the Mediterranean, with particular attention paid to Viking expeditions to North America. Along the way, students will achieve a deeper understanding of Viking society, religion and mythology, and other aspects of Viking culture. In the second half of the course, students will investigate the origins of the modern understanding of the Vikings, from the Victorians' rediscovery of the Vikings to present day preoccupations. We will discuss how, why, and when people remembered and portrayed the Vikings as brutal warriors compared to adventuresome traders and settlers, and the various impacts this had on cultural, social and political developments. This discussion of the history and memory of the Vikings will intersect with topics such as race and ethnicity, nationalism, politics, and gender.

Course	Title	Department	Sustain-focused course	Sus-inclusive course	No sus content	Description
HIST-271-A	African Diaspora	History		x		This course explores the global experiences of people of African descent. Students will study the human experiences of Africans in the Indian Ocean world, the trans-Saharan trade and the Trans-Atlantic slave trade. Geographical areas include Asia, the Caribbean, and Latin America. Particular attention will be given to the web of interrelated histories, social dynamics, political, and economic processes affecting and reflecting world cultures and histories. (Same as AFRS 271 and IDS 271)
HIST-291-A	Environmental History	History		x		This course introduces students to the field of environmental history. Students will examine the ways in which humans, plants, animals, and microbiota have acted as agents in the history of the world. The course emphasizes historical developments after 1300 and especially investigates the roles of science, colonialism, capitalism, and the state in changing the physical state of the environment and the ways humans understand their surroundings.
HIST-292-A	History of Medicine	History			x	This course introduces students to the history of medicine in a global context. We will consider the construction of medical knowledge in ancient times in different locations; the sharing of medical knowledge and materia medica between cultures; and the development of a global medical community through the context of colonial administration. Students will also investigate the extent to which human medicine depends upon the study of animals and the manner in which veterinary knowledge became separate from human medicine. The course concludes with an examination of the ways in which states combined medicine and public works to produce public health and, later, "tropical medicine" and global health.
HIST-293-A	ST:Arctic Explor & Exploit	History			x	Between 1500 and today, the Arctic region has undergone immense climatic, economic, political, and social changes. During this period, the Arctic became an area of intense focus among nation states, international organizations, scientists, and economic enterprises. This course will examine the major shifts in Arctic history, including early indigenous settlement and periods of European exploration and exploitation. Of central focus will be the resultant formation of complex relationships between states, individuals, and ethnic groups. This will include discussions of resource management and extraction in the Arctic, including old and new debates over fishing rights and oil reserves. The course will cover the entwined histories of Arctic stakeholders such as Norway, Russia, Canada, Denmark, and the United States. It will examine interactions between these states at key periods in Arctic history, such as the height of European exploration, the two world wars, the Cold War, and today. Students will also study cultural interactions between indigenous communities and European settlers and nation states. While the course will focus on human actions and interactions in the Arctic region, students will also come to understand the role of the environment in this history and the interdependent relationship between human and environmental systems.
HIST-298-A	The Historian's Craft	History			x	This class introduces students to the study of history as an academic discipline. During the semester, students will become familiar with historiography; the scholarly techniques, theories, and principles of historical research. Among other issues, we will consider how historians formulate and compose their accounts of the past. What factors affect the composition of history? What sources do historians use? How do they select, analyze, and present those sources to their readers? Who are those readers, and to what extent do they determine the stories historians tell? What methodologies do historians commonly use in writing historical accounts, and which ones are most effective? Students will find this historiographic knowledge beneficial to junior and senior-level research projects.
HIST-299-A	Top in Hist:Mediterranean	History			x	Topics in History: Viking Life in Scandinavia and Ireland. This course examines the "Viking Era" approximately 750 to 1100 CE, with special emphasis on Scandinavia and Ireland. It will cover the essential elements of Viking society and culture, and the technological developments that led to the spread of the Viking World. Topics will include:ships and navigation; art; daily life; military techniques; mythology and religion; and literature. Lectures and readings will be supplemented by visits to museums and historical/archeological sites in the following areas: Copenhagen and Roskilde, Denmark; Dublin and Cork, Ireland; and Oslo, Norway.
HIST-321-A	Top in U.S. Hist: Prot & Prog	History			x	The documentary series Making Sense of the Sixties (1991) presents the 1960s as a turbulent time, fraught with struggle. The producers present this decade as an era which created deep and lasting change in U.S. politics and society. Even at the time of its production this thesis was seen by historians and critics as problematic. Using the six-episode series as a touchstone, this course will take a deeper look at the documentary's claims regarding the time as a reaction against the 50s, the civil rights movement, the impact of the Vietnam war, and political upheaval. Students will review recent historical monographs on issues incorporated into the documentary to evaluate its accuracy and argument.

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HIST-355-A	Reformation in Renaissance Eur	History			x	An in-depth analysis of the various elements of the Protestant and Catholic Reformations in the context of Renaissance Europe. The focus is on the traditions, beliefs, values and theologies of the Christian religious reformation and the influences on that reformation from the many cross-cultural currents in the sixteenth century, in particular the ideas and methods promoted by the Renaissance thinkers. The course will also include various aspects of social, economic, and political history, as part of the effort to contextualize the reformers' ideas, as well as their impact across society. Offered alternate years.
HIST-361-A	Top Asian Hist: Amer Asia Emp	History			x	This course will examine the long-term and ongoing imperial enterprise of the United States in Asia, from the participation of colonial-era firms in the global opium trade and "Canton system" to the "forever war" in Afghanistan. Students will consider territorial acquisitions, such as Hawai'i, the Philippines, and Okinawa, as well as the less formal work of missionaries, philanthropists, non-governmental organizations, and corporations.
HIST-371-A	Top Afr His:S Afr & Apartheid	History		x		"No one truly knows a nation until he has been inside its jail..." (Nelson Mandela, 1994): South Africa and Apartheid. South Africa's past is a painful history of deep racial discrimination, racialized violence, and segregation. But it is also a history of human resilience and the struggle for freedom and justice. This resilience is exemplified by the participation of women and men from diverse racial and social backgrounds, who struggled to end the racist policies of apartheid in South Africa. This course examines the important philosophies underpinning the policy of apartheid and the equally powerful, and at times competing, arguments made by those who sacrificed their lives in opposition to it. The course will draw on multiple sources including autobiographies, biographies, and films so that students encounter multiple perspectives that will help them weigh the historical evidence regarding the controversies that have marked South African history from 1948 up to the present. (Same as AFRS 371 and IDS 371).
HP-255-A	Epidemiology Hum Disease Prev	Health and Exercise Sciences			x	
IDS-101-A	Systems of Power	Identity Studies	x			This interdisciplinary introductory class explores the interactions of the many dimensions of privilege and inequality, such as race, gender, sexuality, ethnicity, health status, and citizenship, and the ways in which these systems of power interact and shape social identities. We examine key theories and
IDS-260-A	Identity and Power	Identity Studies		x		A study of contemporary critical race and gender theories, concentrating on the ways social categories such as race, class, gender, and sexuality interact with each other in the formation of personal and political identity. Attention will be paid to the way power structures contribute to limiting
IDS-331-A	Gender, Hlth & Medicine	Identity Studies			x	This class will invite students to examine gender and health issues around the globe, focusing primarily on reproductive health. The class uses a multidisciplinary perspective, which involves insights from anthropology, global health, sociology, women and gender studies, and related disciplines. The course will focus on different themes, responding to current developments in the world. Our goal is to understand how bodies and health are connected to the overarching social and environmental issues, as well as to see how people have made sense of their bodies, identities, and health experiences. Offered alternate years. (Same as ANTH 331)
IDS-355-A	Global Traditions	Identity Studies			x	This course focuses on literary and philosophical texts from across the world that explore the link between social systems of power and social identities. Literary fiction and non-fiction, sacred spiritual manuscripts, philosophical treatises, and music compositions are just a few examples of creative works that explore notions of privilege and inequality. The course will introduce students to rich global "texts" that highlight how intellectuals have sought to examine these realities in their respective cultural locations. Narrative analysis, the interpretation of "story", will serve as the window into understanding "intersectionality", that being the unique ways in which systems of power coalesce to create unique subjectivities and identities.
INTL-230-A	Intro to International Studie	Political Science		x		An introduction to the field of International Studies, focusing on global and geographical literacy and using multiple disciplinary approaches to analyze such issues as war and peace, environmental sustainability, economic development, post-colonialism, world religions, and cultural identity.

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INTL-240-A	Eth Engage in Roatan Honduras	Political Science	x			This island of Roatan, Honduras is an ethnically and linguistically diverse population home, located approximately 40 miles off of the coast of Honduras. Home to the world's second largest coral reef, the island's economy has grown to be almost completely reliant on the tourism industry over time, which has led to an influx of migration from the mainland, creating division among ethnic groups as well as advancing environmental degradation that threatens the reef. This tension, where economic survival depends on the influx of tourists and consequential ecological damage, make Roatan an ideal setting for students to explore the ethical social and environmental challenges that exist in a low-income region. During their time on the island, students will examine the ways in which the people, culture, and ecosystems of Roatan are responding to changing social, economic, political, technological, and environmental factors. Working closely with local health, education, and conservation centers, we will observe the individual factors of change, and explore the systemic forces that are helping to shape the island. Each student will undertake a daily internship with a local NGO, such as a private medical clinic, bilingual school, or marine conservation institute. Additionally, students will have daily presentations, excursions, and group reflections that lay the foundation for understanding the rich history and culture of the island. The course is valuable for students of all majors and is ideal for students who are committed to a life of meaningful engagement to a larger world.
INTL-250-A	Methods of Dialogue	Political Science	x			This course examines various methodologies of dialogue, with a particular focus on those dialogue methods most commonly used in conflict and post-conflict situations. Students will read a broad selection of texts drawn from a variety of disciplines, each of which seek to define dialogue and establish tools for its implementation. During the course of the semester, students will work in small groups to research and present information on a particular dialogue method. Having familiarized themselves with that method and the contexts in which it is best used, they will then lead a short dialogue session, employing the tools of that particular methodology. By the end of the course, students should have a clear grasp of the goals of dialogue as it relates to peacemaking and social change; understand the methodologies underlying the most influential dialogue approaches; and be in a position to assess the pros and cons of several dialogue methods in some detail.
LING-131-A	Intro to Linguistics	Modern Languages & Cultures		x		
LING-133-A	Introduction to Syntax	Modern Languages & Cultures			x	
MATH-113-A	Mathematics and Democracy	Mathematics		x		This course will explore topics on the interface of mathematics and democracy, focusing on mathematical ideas that are relevant to being an engaged citizen in the public sphere. Topics will be selected from gerrymandering, voting systems and Arrow's paradox, election modeling, opinion polls, census data, data visualization, and statistical measures produced by the federal government, such as the consumer price index, unemployment rates, inflation, public health measures, etc. Emphasis will be placed on how understanding some basic mathematical and statistical concepts enables citizens to participate more fully and effectively in the democratic process.
MATH-115-A	Introduction to Statistics	Mathematics			x	The course uses data sets from the social and natural sciences to help students understand and interpret statistical information. Computer software is used to study data from graphical and numerical perspectives. Topics covered include descriptive statistics, correlation, linear regression, contingency tables, probability distributions, sampling methods, confidence intervals, and tests of hypotheses. This class does not count towards the mathematics major or minor or the mathematics/statistics major. Students who earn credit for BIO 256, MGT 150, PSYC 350, or SOC 350 may not earn credit for MATH 115. Prerequisite: high school algebra.
MATH-121-A	Art of Sudoku	Mathematics			x	Sudoku is a logic puzzle that tasks solvers with placing digits (usually 1-9) into a grid while obeying certain other rules, such as not repeating a digit within a row or column. In this course we will explore the wide world of modern sudoku puzzles. The central focus of this course is on students creating their own puzzles in a variety of genres, eventually creating puzzles with rules they make up themselves. No previous sudoku solving experience is necessary for this course.
MATH-123-A	Math for the Elem Teachers	Mathematics			x	This course provides pre-service K-8 teachers a strong foundation in the mathematics content areas as described in NCTM's Principles and Standards for School Mathematics. The content standards include: Number and Operations, Algebra, Geometry, and Measurement. This course will engage students in standards-based mathematics learning to prepare them for the pedagogical practices they will learn in EDUC 325.

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MATH-140-A	Limits and Derivatives	Mathematics			x	This course introduces foundational concepts in differential calculus, while also reviewing important precalculus concepts and algebraic techniques throughout. Course includes a review of algebraic and graphical representations of polynomial, rational, exponential, and logarithmic functions; techniques of simplifying expressions and solving equations; and modeling with various functions. Core topics include average and instantaneous rates of change, limits, derivatives, and applications of derivatives.
MATH-141-A	Calc I with Review, Part B	Mathematics			x	
MATH-150-A	Calculus in Context	Mathematics			x	This course aims to provide students with a deep understanding of the fundamental concepts from calculus, including derivatives and integrals, and how these operations appear in other disciplines such as physics, biology, and economics. Strong emphasis will be placed on understanding, interpreting, and presenting data in the language of calculus. This course is appropriate for students with a strong precalculus background. Students who have taken some calculus, but feel they would benefit from encountering the material again are welcome. Topics covered will include: differentiation rules, definite and indefinite integrals, applications of derivatives and integrals to graphs, optimization, and the Fundamental Theorem of Calculus.
MATH-151-A	Calculus I	Mathematics			x	<del>This course no longer offered.</del>
MATH-152-A	Calculus II	Mathematics			x	Applications of the definite integral, techniques of integration, separable differential equations, series and tests for convergence, and Taylor series.
MATH-185-A	Art of Sudoku	Mathematics			x	In 1637, Fermat sat reading his copy of Arithmetica, a text penned fourteen centuries earlier. We know this, because as he read he carefully recorded his thoughts in the margin. One of those notes claimed he had proven a new result, but he lamented the margin was too narrow to contain it. This claim became known as Fermat's Last Theorem, and it set the mathematicians of the world on a centuries long journey to find a proof. Though the theorem itself was inconsequential, the work it was built on was not. That work has shaped the modern world, having applications as far reaching as physics and computing. Fermat's Last Theorem was proven by Andrew Wiles in 1994, but many stubborn problems remain: the Riemann Hypothesis, the Collatz Conjecture, the Goldbach conjecture, and many more. This is a course about those questions, about the people who study them, and about how the pursuit of the unknown has shaped modern mathematics. No particular mathematical knowledge will be necessary to appreciate the material in this course.
MATH-215-A	Data Analysis	Mathematics			x	An introduction to probability and data analysis for math and science majors who have already taken calculus. Topics include numerical and graphical descriptions of data, regression, probability, sampling distributions, confidence intervals, and hypothesis testing.
MATH-220-A	Math Reason & Writing	Mathematics			x	This course introduces students to standard logical operations (and, or, implies), set operations (union, intersection, complement, Cartesian product, power set), quantifiers (for every, there exists), and properties of functions. These logical foundations are used to understand and produce rigorous mathematical proofs, applying the methods of direct proof, proof by contrapositive, proof by contradiction, cases, and induction. At the end of the course these tools are used to understand cardinalities of infinite sets.
MATH-239-A	ST:Game Theory and Appl	Mathematics			x	This course will cover an introduction to graph theory and provide a foundation for most areas of study within the field. Graph theory techniques have been applied to a large collection of real world problems. The course will pose many problems in terms of these real world examples. It will introduce students to theorems and proofs within the field of graph theory. This course will also introduce algorithms as they apply to the solution of problems covered in the course and students will have the opportunity to solve some of the problems by implementing these algorithms. Prereq: CS 150, CS/Math 220, and CS 151 or consent of instructor.
MATH-240-A	Linear Algebra	Mathematics			x	Theory, computation, abstraction, and application are blended in this course, giving students a sense of what being a mathematics major is all about. Assignments will include computations to practice new techniques and proofs to deepen conceptual understanding. This course starts by solving systems of linear equations, views matrices as linear transformations between Euclidean spaces of various dimensions, makes connections between algebra and geometry, and then extends the theory to more general vector spaces. Topics include matrix algebra, vector spaces and subspaces, linear independence, determinants, bases, eigenvalues, eigenvectors, orthogonality, and inner product spaces.

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MATH-253-A	Vector Calculus	Mathematics			x	The tools of calculus are developed for real-valued functions of several variables: partial derivatives, tangent planes to surfaces, directional derivatives, gradient, maxima and minima, double and triple integrals, and change of variables. Vector-valued functions are also studied: tangent and normal vectors to curves in space, arc length, vector fields, divergence and curl. The fundamental theorem of calculus is extended to line and surface integrals, resulting in the theorems of Green, Stokes, and Gauss, which have applications to heat conduction, gravity, electricity and magnetism.
MATH-271-A	Prob and Stats I	Mathematics			x	Axioms and laws of probability, conditional probability, combinatorics, counting techniques, independence, discrete and continuous random variables, mathematical expectation, discrete probability distributions, continuous probability distributions, functions of random variables, joint probability distributions and random samples, statistics and their distributions, central limit theorem, distribution of a linear combination of random variables.
MATH-322-A	Probability and Statistics II	Mathematics			x	Building on probability theory, learn the theory and foundations of statistical inference, a set of methods for drawing conclusions from data. Topics selected from sampling distributions of the mean, standard deviation and proportion, theory of estimation, methods of point estimation, hypothesis testing, large and small sample confidence intervals, Frequentist and Bayesian inference for means, proportions and variances; and distribution free procedures.
MATH-327-A	Applied Stats I	Mathematics			x	Explore methods of regression modeling, with applications in different fields of inquiry, including science, business, and the humanities. Topics selected from: Least square estimates, simple and multiple linear regression, hypothesis testing and confidence intervals for linear regression models, prediction intervals. Analysis of Variance (ANOVA), model diagnostics, multi-collinearity, influence analysis, logistic regression, tree regression, and time series analysis.
MATH-328-A	Applied Statistics II	Mathematics			x	Statistical experimental design is a set of methods for designing and analyzing multi-factor experiments that maximizes the amount of information obtained given a set of experimental resources. Topics selected from: experimental factors, randomization, blocking, interaction effects, analysis of variance methods, fixed and random effects, repeated measures, factorial and response surface designs.
MATH-351-A	Ordinary Differential Equat	Mathematics			x	Differential equations is an area of theoretical and applied mathematics with a large number of important problems associated with the physical, biological, and social sciences. Analytic (separation, integration factors, and Laplace transforms), qualitative (phase and bifurcation diagrams), and numerical (Runge-Kutta) methods are developed for linear and nonlinear first- and higher-order single equations as well as linear and nonlinear systems of first-order equations. Emphasis is given to applications and extensive use of a computer algebra system.
MATH-360-A	Combinatorics	Mathematics			x	In this course we will survey a wide variety of topics in combinatorics, an area of mathematics which focuses on understanding arrangements of objects, including things like permutations and combinations, but also more rigid structures like Sudoku grids. Combinatorialists are interested in questions such as how many arrangements of a particular type exist, what sorts of structure those arrangements have, and sometimes if any such arrangements exist at all. Topics in this course will include: combinations, permutations, the multiplication principle, the Binomial Theorem, the pigeonhole principle, the principle of inclusion and exclusion, derangements, Latin squares, graphs, and design theory.
MATH-361-A	Number Theory & Cryptography	Mathematics			x	This course gives an introduction to the wide and diverse field of number theory. Topics may include: divisibility theory in the intergers, prime numbers, the Euclidean algorithm, solutions of Diophantine equations, congruences, Euler's theorem, algorithmic number theory, public key cryptography, quadratic reciprocity, analytic number theory and the Riemann Hypothesis.
MATH-452-A	Partial Differential Equations	Mathematics			x	An introduction to initial and boundary value problems associated with certain linear partial differential equations (Laplace, heat and wave equations). Fourier series methods, including the study of best approximation in the mean and convergence, will be a focus. Sturm-Liouville problems and associated eigenfunctions will be included. Numerical methods, such as finite difference, finite element and finite analytic, may be introduced, including the topics of stability and convergence of numerical algorithms. Extensive use of a computer algebra system.
MATH-456-A	Complex Analysis	Mathematics			x	This course extends calculus to functions of a complex variable. Concepts such as limits, derivatives, and integrals are adapted. There will be both theory and computation, with geometric insights and applications to the physical sciences. Topics may include harmonic functions, the Cauchy Integral formula, Taylor and Laurent series, conformal mappings, and the Riemann Hypothesis.

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MATH-471-A	Abstract Algebra I	Mathematics			x	Real numbers and integers satisfy many nice properties under addition and multiplication, but other sets behave differently: matrix multiplication and composition of functions are noncommutative operations. Which properties (associativity, commutativity, identity, inverses) are satisfied by operations on sets determine the basic algebraic structure: group, ring, or field. The internal structure (subgroups, cosets, factor groups, ideals), and operation-preserving mappings between sets, (isomorphisms, homomorphisms) are examined. Emphasis is on theory and proof, although important applications in symmetry groups, cryptography, and error-correcting codes may also be covered.
MGT-150-A	Statistics	Economic, Accounting & Management			x	A first course in statistics which introduces descriptive and inferential statistical tools as they apply to management, accounting and the social sciences. Students who earn credit for MATH 115 cannot earn credit for MGT 150.
MGT-240-A	Principles of Management	Economic, Accounting & Management		x		Historical and contemporary approaches to managing people and organizations. Includes assessing, developing, practicing, and applying management competencies, knowledge, and skills.
MGT-250-A	Data Ana Bus Dec-Making	Economic, Accounting & Management			x	This course is an introduction to business intelligence and analytics, focusing on the extensive use of data analysis to drive business decisions and actions. Areas of emphasis are efficient manipulation of data sets, defining and organizing needed data using data modeling techniques, retrieving and mining data using database tools, using data to create models for analysis, and presenting data effectively for decision-making. The course will utilize current software tools, such as spreadsheets and databases, and will focus on techniques for improving business reporting and data visualization.
MGT-301-A	Principles of Marketing	Economic, Accounting & Management			x	
MGT-302-A	Human Resource Management	Economic, Accounting & Management			x	
MGT-303-A	Financial Management	Economic, Accounting & Management		x		
MGT-304-A	Organizational Behavior	Economic, Accounting & Management		x		
MGT-320-A	Business Analytics	Economic, Accounting & Management			x	This course builds on previous business analytics skills to prepare students to understand, manage, and visualize the data; apply the appropriate analysis tools; and communicate insights gained and their relevance. (same as Acctg 320)
MGT-360-A	International Business Mgt	Economic, Accounting & Management		x		This course seeks to acquaint the student with the theories, environmental factors, procedures, and terminology that combine to make international business management more challenging than its domestic counterpart. Topics covered include theories of trade, modes of entry into foreign markets, international organizations, export procedures, foreign currency exchange, the international monetary system and the effects of culture, politics, laws, and geography on cross border transactions.
MGT-361-A	Business Law	Economic, Accounting & Management		x		A study of the sources of law and their application to contracts, sales, negotiable instruments, agency, business organization and government regulation. Emphasis on critical thinking including legal and ethical considerations in making business decisions.
MGT-365-A	Investments	Economic, Accounting & Management			x	Analysis of the investment environment, instruments, markets, and institutional aids for purposes of formulating broad personal investment programs.
MGT-371-A	Project Management	Economic, Accounting & Management			x	This course provides an introduction to the core concepts, techniques, and principles of project management required to successfully meet an organization's goals and objectives, with particular emphasis on Information technology (IT) projects. The course explores the Industry standard Project Management Body of Knowledge (PMBOK) guide and also incorporates learning objectives related to communication, influence, and negotiation, and their relationship to project success.
MKT 310-A	Digital Marketing/ E-Commerce	Economic, Accounting & Management			x	Emerging online technologies have revolutionized the buying and selling of goods and services in the marketplace. The course is designed to challenge students to explore the realities and implications of e-commerce from a manager's perspective. This course does not assume the student has any previous electronic commerce management experience. Topics include: internet revenue models and their execution on the web, payment acceptance and security issues, designing electronic storefronts, planning for electronic commerce, and the legal and ethical challenges of electronic commerce.
MKT 320-A	Sales/Advertising/Promotion	Economic, Accounting & Management			x	An introduction to professional salesmanship emphasizing its relationship to marketing concepts. Case studies and demonstrations are used throughout the course.

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MUED-371-A	Elem Gen Mus Methods & Lab	Education			x	Survey of the K-5 general music program. Study of the music student, content, materials, and methods of instruction. Includes Orff and Kodaly approaches, technology, and classroom management. This course provides practical experience in elementary general music methods through a teaching partnership with area schools. Required of all music education minors.
MUS-120-A	Intro to Musical Styles	Music			x	This course is designed specifically for non-music majors and music minors, and does not require the ability to read Western musical notation, but those who read musical notation are warmly welcome. The course focuses predominantly on compositions of Western art music (commonly referred to as Classical music) ranging in date from 1600 to the present day. However, certain pre-1600 musical traditions that served as precursors to later music will be introduced, as will some post-1900 popular musical genres. Throughout the course, students will become increasingly more adept at listening actively and perceptively to music, and at aurally recognizing important melodic, harmonic, rhythmic, formal, timbral, and other traits in a wide variety of compositions. They will also become familiar with appropriate musical terminology for describing the musical traits that they hear, and apply these terms in writing and orally. We will also consider the ways in which politics, economics, religion, and societal norms helped to shape the pieces that we study, and how the impact of some of these compositions far transcends the musical realm.
MUS-139-A	Choral Singing in Taiwan	Music			x	Pipe organs were central to American musical life in the late nineteenth and early twentieth centuries. This course will explore how thinking changed about what the organ should be, musically, leading both performers and builders down divergent paths in the mid-twentieth century. The course will try to unravel the technical details about the organ that only experts normally understand. The rich resources on campus will serve as a laboratory for these explorations. The vast literature written for the "King of Instruments" spanning six centuries will be briefly explored. The class will make field trips in and around the upper Midwest area, including Saint Paul and Minneapolis to visit organ building shops, and instruments of note.
MUS-162-A	Intro to Opera Performance	Music			x	This course provides an introduction to the performance and study of opera. Students study, rehearse, refine, and perform excerpts from opera, operetta, and/or musical theatre, both in public performance as well as during in-class exercises and workshop sessions. Students build musical and dramatic skills, reflect deeply on their own creative work and the work of others, and collaborate with others in co-creative endeavors.
MUS-185-A	Intro to Opera Performance	Music			x	The influence of musical theatre in contemporary US performing arts culture is significant and on the rise. Broadway-style musicals also serve as excellent tools for communities to grapple with complex current events and engage in difficult conversations about the human condition. Some of us have
MUS-244-A	Mus Hist I: Med, Ren and Baro	Music			x	This introductory course offers a survey of sacred and secular music from Antiquity to 1750. Students will examine the origins of many musical conventions that we take for granted, such as meter, musical notation, polyphony, and tonality, and will learn about the composers and theorists responsible for these innovations. The origins and development of many genres, including the Mass Ordinary cycle, motet, madrigal, sonata, concerto, cantata, and opera will be explored. Students will learn to speak and write articulately about the music that we study using appropriate musical terminology and analytical approaches. They will also develop the ability to distinguish important stylistic features of music from different time periods through musical listening and score study. By considering musicians' career paths, the venues where performances took place, the patronage system, and the creation of the printing press, students will become aware of how historical, social, and political factors shaped the repertory and affected musical life during this period.
MUS-247-A	History of Jazz	Music			x	A survey of the history and development of jazz, from the 1890s to the present. Includes origins and early jazz through the modern jazz era. Listening activities focus on the major figures of each historical period. Offered alternate years. (Same as AERS 247 and IDS 247)
MUS-248-A	World Music Cultures	Music			x	An introduction to music cultures outside of the West, which may include the art and vernacular musics of Africa, the Americas, East and South Asia, and Northern and Eastern Europe. The course will be grounded in theoretical perspectives from ethnomusicology, exploring both sound structures and social structures as well as the relationships between them. This course is intended for students fluent in reading and writing Western notation, and able to hear and speak analytically about aspects of musical sound (meter, scale, texture).
MUS-345-A	Mus Hist II: Clas & Rom	Music			x	

Course	Title	Department	Sustain-focused course	Sus-inclusive course	No sus content	Description
MUS-346-A	Music History III	Music			x	The first half of the course examines major trends in twentieth- and twenty-first century Western Art Music and American vernacular music. We will observe a weakening of tonality and functional harmony and explore the alternative systems that composers introduced. The influence of non-Western music, pre-nineteenth-century music, and popular music on Western Art Music will also be explored, as will the ways that nationalism, censorship, politics, and advances in technology shape music from this period. The second half of the course introduces students to the music of some non-Western cultures. Taking a case study approach, we will investigate the music of select cultures from Asia, Africa, and Latin America, focusing on the instruments, methods of organizing music, performance contexts, and the significance and meaning of music-making in each culture. We will examine how music helps to express identity and how transmission and globalization affect music. We will conclude by studying a North American musical tradition outside of the Western Art Music sphere, from an ethnomusicological perspective, exposing students to some of the methodologies and key questions of the field.
NORST-101-A	Elementary Norwegian I	Modern Languages & Cultures			x	Speaking Norwegian from the first day of class, students will learn effective communication skills in the target language. Linguistic competencies will focus on reading, writing, listening, speaking while students will also engage with aspects of Norwegian culture ranging from introductions, food traditions, contemporary university life, and friluftsliv (outdoor life).
NORST-102-A	Elementary Norwegian II	Modern Languages & Cultures			x	Speaking Norwegian from the first day of class, students learn to apply a practical knowledge, first to their own situation in this country and subsequently to selected aspects of Norwegian culture ranging from everyday customs and manners, travel and shopping, to history, the arts and education.
NORST-115-A	Scandinavian Fine Handcrafts	Modern Languages & Cultures		x	x	Working in a variety of natural materials, which may include wood, horn, reindeer leather, or birch bark, students will produce traditional useful objects with a Scandinavian aesthetic. Use of Vesterheim's collection along with studio experience.
NORST-201-A	Intermediate Norwegian	Modern Languages & Cultures			x	Building off the knowledge gained in NORST 101 and NORST 102, students will focus on the linguistic skills of speaking and listening while exploring topics tied to health, wellness and work culture in contemporary Norway.
NORST-202-A	Norwegian Through Film and Lit	Modern Languages & Cultures			x	Continuing to develop students' abilities to communicate in the language and to increase their knowledge of the country, the course combines readings from short stories, novels, and recent Norwegian feature films. Students will be asked to conduct oral presentations, written analysis and contribute to course discussions that further their competencies in Norwegian language and the development of cultural and artistic understanding.
NORST-250-A	Topics in Nordic Literature	Modern Languages & Cultures		x	x	This course will offer reading and discussion of literature of various genres, authors and time periods of Norway and other Nordic countries. Topics will change annually and rotate. Students may enroll in the course multiple times for credit (and count towards the major/minor in Nordic Studies), provided that the topic is new. The course is taught in English and readings are in English. Students who have completed NORST 202 may elect to enroll in this course for extra assignments in Norwegian.
NORST-339-A	Nordic Fiction and Food	Modern Languages & Cultures		x	x	The course will offer viewing and discussion of four current television shows from the Nordic region. Students will engage in rigorous in-class discussions examining how television engages discourses on immigration, national identity, energy politics and social welfare in the contemporary Nordic region. In this course, students will be required to complete independent research to shape written analysis of the visual source material for form and content. The course is taught in English, readings are in English, and television shows are subtitled in English. Students who have completed Norst 202 may elect to enroll in Norst 339 to complete the coursework in Norwegian.
NORST-345-A	Comp, Conv & Adv Grammar	Modern Languages & Cultures			x	This course is for students who have completed four semesters of college-level Norwegian or the equivalent. It focuses on developing skills in speaking, writing, and reading comprehension and offers ample opportunity for individual practice and feedback. Several recent feature films and novels provide the basis for class discussion and writing assignments, while the course culminates in an oral report based on individual research.
NURS - 420/NU	Population-Based Care Class/Clinical	Nursing		x		This course focuses on health promotion with disease and injury prevention in population groups. Social justice principles are woven throughout course content to emphasize collective action toward improving national and international health. With an introduction to the science of epidemiology, students will analyze health patterns of populations in connection with contextual contributing factors, such as lifestyle, social, economic, cultural, and historical perspectives. Public health interventions are explored at individual, aggregate, and population levels. Key focus areas of public health will be addressed including but not limited to environmental health, disaster and emergency preparedness, and political involvement.
NURS-377-A	Family/Child Nursing	Nursing			x	This course focuses on childbearing and childrearing families, with emphasis on culturally competent and developmentally appropriate nursing care to promote healthy infant/adolescent and family function. Concepts of family theory, family-centered care, family culture and health promotion are emphasized.

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NURS-480-A	Senior Leadership Capstone	Nursing			x	This capstone course will include experiences similar to those students are likely to confront as newly employed baccalaureate prepared registered nurses. Students will work in 1:1 experiences with baccalaureate nurse preceptors in selected clinical settings. An emphasis is placed on the development of personal and professional strategies needed to make the transition from student to graduate nurse by highlighting role development skills of bedside nurse leaders.
PHYS-114-A	Physics in the Arts	Physics			x	The creation of visual art and music are deeply human activities, as is the development of scientific understanding of the natural world. In this course these two activities are brought into conversation, as students study the deep connections between physical principles of sound and light and the creation and perception of music and the visual arts. In the realm of music, the physics of sound is applied to the production of musical sound by instruments, including the human voice; musical harmony and scales; and the perception of sound. Concerning the visual arts, the physics of light waves is applied to the study of lenses, cameras, color mixing, and perception of light by both the human eye and light-sensing devices. There are no formal prerequisites for this course, but basic algebra, geometry, and other mathematical tools will be used throughout the course.
PHYS-150-A	Intro to Physics/Engineering	Physics			x	Students are introduced to fundamental principles of physics, science, and engineering, with an emphasis on the iterative, self-correcting process that leads to the development of new physical theory and the applications that derive from that theory. Topics will range from Newtonian mechanics to quantum mechanics, molecular systems and materials, and computational/algorithmic thinking, with an emphasis on the myriad devices and systems that grow out of this work and underpin modern society. The course carries no mathematical prerequisite but mathematical concepts will be introduced and developed. Project work will be developed in the laboratory. (Same as ENGR 150)
PHYS-151-A	General Physics I	Physics			x	An investigation of the important principles of physics, including recent developments. Designed for the arts major as well as students majoring in one of the sciences. Together, PHYS 151 and 152 meet the basic requirements in physics for preprofessional students in health related fields, including medicine. Topics include mechanics, energy, fluids, heat, and wave motion. Although this is a non-calculus course, the foundation of physics is mathematical modeling of the physical world. Thus, a basic working knowledge of algebra and trigonometry is assumed and will be further developed as the course proceeds. Graphical and statistical analysis is employed throughout the laboratory component. A student may not receive credit for any pair of PHYS 151, PHYS 181, PHYS 201.
PHYS-152-A	General Physics II	Physics			x	A continuation of the study of physics that builds on the ideas discussed in PHYS 151. Topics include electricity and magnetism, light, optics, atomic and nuclear physics. A student may not receive credit for any pair of PHYS 152, PHYS 182, PHYS 202.
PHYS-181-A	Classical Physics I	Physics			x	
PHYS-185-A	Dev Atomic Weapons Power	Physics		x		The building of nuclear reactors and atomic bombs required an enormous amount of resources. Cities that were home to thousands of workers and manufacturing plants covering hundreds of acres were built just to make atomic bombs, yet much of the initial work was done by small groups of
PHYS-201-A	Foundations of Physics I	Physics			x	An introduction to the ideas of physics. Topics include Newtonian mechanics, energy, work, oscillations, and fluid dynamics. The laboratory work focuses on measurement and observation to enhance conceptual understanding of the material. The laboratory component is integral to the
PHYS-281-A	Modern Physics I	Physics			x	
PHYS-354-A	Astrophysics	Physics			x	A general, intermediate course on the physics of astronomical objects. Includes introduction to descriptive astronomy. Topics include celestial mechanics, structure of and evolution of stars and topics taken from galactic astronomy and cosmology.
PHYS-359-A	Thermodynamics & Stat Mech	Physics			x	Concepts of entropy, temperature, thermodynamics, and statistical mechanics. An emphasis is placed on classical and quantum statistics and on the connection between microscopic and macroscopic thermal phenomena, with applications to a wide variety of physical systems.
PHYS-361-A	Classical Mechanics	Physics			x	This course presents kinematics and dynamics of particles using Newtonian, Lagrangian and Hamiltonian techniques. Topics include conservation laws, central force motion, oscillations and normal mode analysis, small oscillations, rotating rigid bodies and motion in noninertial reference frames.
PHYS-364-A	Electricity and Magnetism	Physics			x	A study of electric and magnetic fields leading up to Maxwell's equations and their applications. The topics include the electrostatic and magnetostatic fields in vacuum and in matter, scalar potentials, vector potentials, electrodynamics and electromagnetic waves.

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PHYS-411-A	Quantum Mechanics	Physics			x	This course extends the treatment of quantum mechanics encountered in Modern Physics to include an in-depth exploration of the subject. The principles of wave mechanics are applied to various one dimensional problems, including the harmonic oscillator. The properties of angular momentum are developed and applied to central potentials in three dimensions. Matrix mechanics and spin angular momentum are also discussed, allowing for a complete treatment of the physics of hydrogen-like atoms. The course concludes with a study of variational methods and time-independent perturbation theory.
POLS-130-A	American Politics	Political Science			x	An overview of the historical and contemporary practice of American politics that focuses on the nature of politics and government; the founders' ideas about the democratic republic; the constitutional theory and actual distribution of political power among the branches and levels of government; the problems and possibilities of governing America today; and the avenues available for citizen participation and influence.
POLS-132-A	Global Politics	Political Science		x		This course will introduce students to (1) global issues, with examination of themes like globalization, economic development and poverty, climate change, ethnic conflict, democratization and war, and (2) global governance, with emphasis on the role of states, nonstate actors and multilateral institutions.
POLS-139-A	And the winner is...	Political Science			x	
POLS-185-A	It's a Conspiracy	Political Science			x	This course seeks to promote critical thinking through an examination of conspiracy theories (and some actual verified conspiracies) in American and world politics. Cases to be examined may include September 11, one or more assassinations and the 1953 coup in Iran. Students will investigate and evaluate a conspiracy not covered in class.
POLS-220-A	Science and Politics	Political Science		x		Students in this course will engage in an examination of the complex relationships between science and politics. We will familiarize ourselves with scientific research methods, and examine the ways that political ideas and political systems influence and are influenced by scientific research and developments. Historical and contemporary scientific controversies will be explored.
POLS-230-A	Populism Around the World	Political Science			x	This course investigates the global rise of populist leaders, parties, and movements in Europe, Latin America, Asia, and Africa. The course starts with an examination of the theoretical and methodological foundations of populism. In the second part of the course, students will conduct research on individual cases of populist leaders and parties in countries such as France, Venezuela, Turkey, Hungary, India, and South Africa. Ultimately, students will understand the cultural and political context in which populist actors operate around the globe.
POLS-238-A	Latin American Politics	Political Science		x		This course examines the development of Latin American countries' current political situations. Country-specific analysis of current political situations will form the basis for comparative analysis.
POLS-240-A	Research Methods	Political Science			x	This course will introduce you to the social science methods of investigation and analysis that are used in political science research. We will utilize the scientific method - identifying a definable problem, developing testable hypotheses, designing research strategy, gathering data, analyzing
POLS-247-A	Social Policy	Political Science		x		Students in the course will consider a wide range of social policies, the policy making process, and the impacts of those policies, with attention to the concepts of sustainability and resilience. We will investigate the influence of race, ethnicity, gender, class, ideology, demography, organized interests, and a market economy on the social policy making process in the US. The course will primarily focus on US social policy, but will also include comparative examples of social policies from around the globe.
POLS-258-A	Environmental Politics & Polic	Political Science	x			
POLS-330-A	Global Hlth Polit and Polic	Political Science		x		What can help to explain the patterns of vast disparities in health outcomes for different people in different places? This course will examine the political, economic, and social factors that influence public health policies and health outcomes around the world. We will explore the role of governments, community organizations, technologies, Non-Governmental Organizations, healthcare providers, education systems, religious organizations, and cultural beliefs, in helping to explain differences in healthcare systems, and differences in health outcomes.
POLS-340-A	Environmental Justice and Law	Political Science	x			
POLS-342-A	Comparative Politics	Political Science			x	This course investigates the political systems of various countries, using the comparative method to understand variations in electoral systems, forms of government, bureaucratic structures, and other aspects related to the political process. Case studies cover major political systems around the world. The course considers the historical, institutional, cultural, and ideological developments that have led to various political systems.

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POLS-355-A	Constitutional Law	Political Science		x		Relying primarily on Supreme Court opinion, the course emphasizes how the Supreme Court has and should interpret the Constitution. The course examines the role of the Supreme Court and the allocation of governmental powers within the American constitutional/political system.
POLS-485-A	Seminar	Political Science		x		This senior seminar will use political science methods to examine the question "What is Justice?" Students will work on articulating their own sense of justice, while reading about a wide range of approaches to conceptualizing justice, including: criminal justice, procedural justice, environmental justice, international justice, restorative justice, racial justice, gender justice, social justice, and economic justice.
PSYC-130-A	General Psychology	Psychology			x	An introduction to the field of psychology intended for both majors and non-majors. Topics covered include social processes, personality, emotional disorders, development, thinking, testing, learning, motivation, perception, psychobiology, and animal behavior. This course is prerequisite to all other psychology courses.
PSYC-185-A	Psychology of Forgiveness	Psychology		x		This seminar will introduce students to the study of adult development and aging. We will discuss the physical, cognitive, and social changes that effect individuals aged 60 to 95, and examine some current findings in aging research. In addition, we will consider how external influences contribute to ageism and shape our expectations of growing older in the 21st Century.
PSYC-240-A	Developmental Psychology	Psychology			x	Developmental psychology is the branch of psychology that studies how people change as they age. This course focuses on the description, prediction, and explanation of physical, cognitive, and psychosocial aspects of age-related change, from conception to old age.
PSYC-241-A	Psychology of Health/Illness	Psychology		x		Health psychology is a diverse field whose goal is to examine psychological factors prevent illness and promote health. Emphasis will be placed on the science of psychology as it applies to multiple areas of health.
PSYC-243-A	Personality & Indiv Difference	Psychology			x	An examination of the major psychological approaches to personality and topics such as cognitive ability, attitudes, and other latent structures underlying consistencies in behavior. Special attention will be given to certain selected theorists and their contrasting views of personal change/consistency, human nature, and psychological investigation.
PSYC-244-A	Animal Cognition	Psychology			x	This course is an introduction to the study of cognition in animals, including how animals perceive, think, learn, remember, and communicate. We will explore these issues within both psychological and biological frameworks, and will include topics such as evolution of intelligence, cognition as
PSYC-248-A	Psychology of Religion	Psychology			x	The psychology of religion is the empirical study of human behavior, cognition, and motivation as it relates to religious phenomena. Both classic and contemporary psychological approaches to religion will be discussed in this course, and research on topics such as religious development, morality, spirituality, and the relationship with God will be covered.
PSYC-249-A	Brain and Behavior	Psychology			x	This course will explore the biological basis of behavior through the fields of behavioral and cognitive neuroscience. The focus is on how the brain regulates human behavior, with emphasis on particular psychological topics such as developmental processes, perceptual processes, learning and memory
PSYC-350-A	Behavioral Statistics	Psychology			x	A first course in statistics which introduces descriptive and inferential statistical tools as they apply to organization and analysis of data in the behavioral sciences.
PSYC-352-A	Cognitive Processes	Psychology			x	
PSYC-353-A	Social Psychology	Psychology			x	Social psychology is the scientific study or how people think about, influence, and relate to one another. Some major topic areas include attitude formation and change, aggression, attraction, conformity, person perception and group processes. Lectures, discussions, and weekly laboratories will be held. Students will be involved in original research.
PSYC-354-A	Learning and Behavior	Psychology			x	A study of the basic theories, methodology, and findings in the areas of classical and operant conditioning and learning for both humans and animals. Applications, including behavioral modification, will be emphasized throughout the course. Lecture, discussion, and weekly laboratories.
PSYC-356-A	Stress, Coping, and Well-Being	Psychology		x		
PSYC-358-A	Psychology of the Workplace	Psychology		x		
PSYC-465-A	Abnormal Psychology	Psychology			x	
PSYC-468-A	Intro to Counseling	Psychology			x	

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REL-101-A	Intro to Biblical Studies	Religion			x	In this course, students will investigate the diversity of expression within and among ancient Jewish and early Christian communities by exploring selected texts from the Bible (Hebrew Bible and New Testament). How these texts shaped and were shaped by the social and political realities of the time will be central to the course. Students who earn credit for REL 101 may not earn credit for REL 111 or REL 112.
REL-111-A	Intro to Hebrew Bible Studies	Religion			x	In this course, students will investigate the diversity of expression within and among ancient Jewish communities by exploring selected texts from the TaNaKh (Hebrew Bible), Apocrypha, and Pseudepigrapha, ancient Jewish texts edited and written during the Second Temple Period (6th/5th c. BCE-70 CE). How these texts shaped and were shaped by the social and political realities of the time will be central to the course.
REL-112-A	Intro to the New Test Studies	Religion			x	An introduction to the academic study of the literature of the New Testament with an emphasis on selected, writings, themes, and methods of interpretation. Students will also become familiar with extra-biblical sources (textual and archaeological) which contribute to understanding the New Testament in its historical, socio-economic, theological, and literary contexts. Students who earn credit for REL 112 may earn credit for REL 111 but not for REL 101.
REL-185-A	Darwin, Drugs, and the Divine	Religion			x	Throughout the Hebrew Bible "violent power is marked as masculine, [and] subjugation and defeat as feminine." We see this in the many instances of sexual violence perpetrated against women in the biblical text; men take women as the spoils of war, virgin women are raped, fathers sacrifice their daughters, and husbands barter their wives to save themselves. Readers are repeatedly faced with images of the objectification of women and violence against the female body, which is often described in pornographic detail. In this course, we will uncover the challenges posed by the "misogyny of Scripture" and study the various approaches that interpreters have used to grapple with those challenges. We will explore the methods and interpretations of feminist biblical scholars, as well as the renderings of scriptural tales dealing with the subjugation of and violence against women in art, literature, and films produced by female artists.
REL-217-A	Bible & Christian Faith	Religion		x		This course will address two fundamental questions: 1) What is "the Bible"? and 2) What is faith? For many Christians, the Bible has long functioned as a resource for identity, Christian traditions, beliefs, and faith. By examining the history of the writing, collection, canonization, and interpretation of biblical texts, this course will explore how the so-called "Christian Bible" has been shaped by and shapes religious experiences and identities. The course will also explore multiple definitions and understandings of "faith." Students will consider possible relationships between "the Bible" and faith by reflecting upon the use, role, function, and authority of "the Bible" in the personal life of Christians and society, especially when interacting with other religious traditions and addressing global issues.
REL-219-A	Christian Theology	Religion			x	A study of teachings basic to the Christian faith using classical and contemporary sources from both the Protestant and Catholic traditions, such as those about God, relations among religions, Jesus, the Church, and creation and its interpretations for today in light of their biblical and historical foundations.
REL-220-A	Experiencing Mahayana Buddh	Religion			x	This course introduces students to Mahayana Buddhism. It explores the development of Mahayana Buddhism, its relationship with other religious traditions, and its influence on culture. The primary teaching method is experiential. Students will visit temples in selected areas of East Asia, have instructions by an abbot, participate in the monastic life, will meet scholars of Buddhism, visit holy sites, and participate in Buddhist worship. The students will spend three days in a temple, joining the monks in meditation and religious practice. In addition to this experiential dimension, the course will familiarize students with the history, scriptures, and beliefs of Mahayana Buddhism through readings from primary texts, lectures, videos, and class discussions. It will further analyze the Buddhist response to general topics and problems, such as the absolute, the notion of self, the problem of human existence, as well as soteriological and ethical issues. (Same as IDS 220)
REL-222-A	Luther and Lutheranism	Religion			x	This course closely examines the life and thought of Martin Luther, provides an overview of the development of Lutheran Churches from the Reformation to the present, and explores some of the issues debated in Lutheran Churches today.
REL-223-A	What's the Right Thing?	Religion		x		This is a course in global ethics. It examines traditions of moral reasoning around the world and across boundaries. It focuses on the development of values and moral thought in the traditions commonly referred to as Christianity, Confucianism, and Buddhism. The course explores the values and moral reasoning introduced in the foundational texts of these traditions and their development over time. In addition, the course confronts how structures of power and hegemonic thinking result in the dominance and pervasiveness of specific values and moralities. A special consideration will be given to the ways in which these traditions interacted with, assimilated, and oppressed so-called indigenous traditions. What is the relationship between values and systems of power? How are values shaped by traditions and used to represent them within discourses of identity politics?

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REL-224-A	Islam	Religion			x	The nature of the early development of Islam has been much contested and somewhat shrouded in mystery. Who was Muhammad? What were the goals and motivations of the early Islamic movement? New historical research is beginning to shed light on these questions in ways that could have real implications for how we understand the nature of Islamic identity in the contemporary world. In this course, we will explore the growing evidence for Islamic origins and analyze its implications for understanding the contemporary realities of various Muslim movements and traditions.
REL-229-A	Religions of South Asia	Religion			x	This course will introduce the religious and philosophical traditions of South Asia. Particularly, it will focus on historical, textual, and doctrinal foundations of Hinduism, Buddhism, Jainism, and Sikhism. It will analyze excerpts of their sacred scriptures, survey their beliefs, study their practices, and explore their ethical systems. Additional consideration will be given to contemporary issues facing these traditions.
REL-231-A	Contemplative Studies	Religion			x	This course provides an introduction to contemplative studies. It explores a variety of contemplative practices and meditation theories across cultures and traditions as well as phenomenology and neuroscience as methods to study contemplative experiences. Drawing on various disciplines including philosophy of mind, cognitive science, phenomenology, and neuroscience, this course will analyze conceptions of consciousness advanced in meditation manuals as well as scientific studies of meditative states. The course examines the relationship between neurological processes and the phenomenal self.
REL-232-A	God, Self, and the Afterlife	Religion			x	This course introduces students to philosophy of religion. It attempts to bring rational justification and clarification to religious beliefs and practice. This course will explore the traditional approaches as developed in the Christian and Islamic traditions as well as the global critical approaches suggested by current scholarship. Topics may include: the existence and nature of ultimate reality, the existence and attributes of God, faith and reason, death and immortality, miracles and revelation, religious experience, the problem of evil, the purpose of religious practice and rituals, the difficulties of defining religion, the question of religious morality, and religious pluralism. (Same as PHIL 232)
REL-233-A	God and Gender	Religion			x	An investigation of how our understanding and experience of gender are connected to our views of God, human beings, and the natural world. The course explores the works of a variety of thinkers and pays special attention to issues raised by feminist theologians who stand both inside and outside the
REL-235-A	Science & Religion	Religion			x	Ever since the rise of modern science in the 17th-century, a lively debate has ensued in the West centered on supposed conflicts between the methods and content of science and those of the religion. Can the universe be explained by appeal to natural processes alone or is it necessary to
REL-239-A	ST:Queer and Trans Religions	Religion			x	A major problem in the 21st century is the enduring persistence of ethnic/racial expressions that often flare up into binary differences that lead to violence, as well as the role that religious texts/expressions play in accenting the problem. In the last ten or so years, scholarship both in the Social Sciences and Biblical/Religious Studies has increasingly been turning to address this problem. In this course students will engage in a historical, literary, and exegetical reading of the Book of Ruth in order to understand the historical, sociopolitical, ideological, and economic forces that shaped ethnic/racial identifications in the context of the ancient Israelite community that produced this text, as well as how this community sought to resolve potentially violent interethnic relationships.
REL-244-A	Religion and Sports	Religion			x	Can sports be considered a religion? Is there a spiritual aspect to sport participation? How have religions incorporated sports into their practices and institutions, and vice versa? When have religion and sports come into conflict? In this course students will explore such questions as they critically analyze interconnections between sports and religion.
REL-250-A	Living Religions	Religion			x	This course explores the ways religion constitutes a vital force in the 21st century. It explores questions such as: what is religion, how can we study religion, why does religion appeal to people in an age of science, and how does religion facilitate personal and social transformation? The course integrates field trips, critical analysis, literature and films, the study of religious art, and theoretical reflection in order to examine the role religion plays in today's world. Particular emphasis will be given to religious worldviews, practices, art, and ethics. While the course focuses on the phenomenon of religion in general rather than individual religious traditions, the course addresses religious diversity worldwide as well as in the Midwest.
REL-252-A	Intro to Interfaith Studies	Religion			x	This course introduces students to the emerging field of interfaith studies, a discipline that analyzes how people who orient around religion differently think about and interact with one another, along with the implications of these interactions for civil society, global politics, and the common good. Particular focus will be given to the following themes: religious and interfaith literacy, theologies and philosophies of religious pluralism, multi-religious belonging and practice, interfaith families, interfaith leadership, interfaith peacemaking, and secular and non-religious contributions to interfaith engagement.

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REL-253-A	Sex in the Bible and Qur'an	Religion			x	This course will explore constructions of gender and sexuality in the Bible and the Qur'an. Students will be introduced to contemporary theories of gender and sexuality that they will use to analyze primary texts intertextually in relation to their cultural contexts. Specific topics may include competing representations of men and women, different constructions of marriage, the use of marriage as a metaphor, and representations of homoeroticism. (Same as IDS 253)
REL-255-A	Identity & Diversity East Asia	Religion			x	A study of the ways in which religious identity is constructed and negotiated in China, Korea, and Japan. This course investigates concrete encounters between various Buddhist, Confucian, Daoist, and Shinto schools, institutions, thinkers, and practitioners as well as between political entities and cultural traditions alike; explores variations of the "three teachings in one" as they are expressed in religious myths, especially those involving martial art heroes, meditation manuals, and religious practice in East Asia; and analyzes the theoretical models developed to explain the diversity of beliefs, practices, and cultures in East Asia. This course will provide an in-depth understanding of East Asian religions and cultures and the interaction among them as well as engaging models of religious identity and diversity. (Same as IDS 255)
REL-255-A	Identity & Diversity East Asia	Religion			x	A study of the ways in which religious identity is constructed and negotiated in China, Korea, and Japan. This course investigates concrete encounters between various Buddhist, Confucian, Daoist, and Shinto schools, institutions, thinkers, and practitioners as well as between political entities and cultural traditions alike; explores variations of the "three teachings in one" as they are expressed in religious myths, especially those involving martial art heroes, meditation manuals, and religious practice in East Asia; and analyzes the theoretical models developed to explain the diversity of beliefs, practices, and cultures in East Asia. This course will provide an in-depth understanding of East Asian religions and cultures and the interaction among them as well as engaging models of religious identity and diversity. (Same as IDS 255)
REL-301-A	Is Morality Any Good	Religion			x	This seminar explores moral theories framed in the context of multiple religious traditions with a special emphasis on Christianity and Buddhism. In particular, it examines how selected primary and secondary texts develop religious moral theories in response to the fact of evil within a monotheistic, humanistic, or non-dualist framework. The seminar focuses on following questions: What is Evil? How do religious texts explain the existence of evil? What is the goal of moral theory? How does moral theory respond to evil? What makes a moral theory effective? Is moral theory necessary for the attainment of religious goals? Is religion necessary for a moral life? The students will engage a variety of religious and philosophical positions.
REL-303-A	Rel Pluralism Lat & Caribbean	Religion		x		Human migration, colonialism, missionary endeavors, and globalization have significantly impacted the world's religious landscape, leaving us with a greater awareness not only of religious diversity, but also the power dynamics engendered by conflicting religious truth claims. In Latin America and the Caribbean, this encounter of different religions often led to violent clashes but also to the development of hybrid religious identities, combining elements of Christianity with religious expressions stemming from Indigenous and African matrices such as Santería, Voodoo, Candomblé, Animism, and Spiritism, for example. Although drawing from theoretical and methodological reflections developed in a global context, this course will use case studies from Latin America and the Caribbean to study religious pluralism and multiple religious belongings.
SCI-121-A	Intro to Astronomy	Physics			x	Students develop an understanding and appreciation of elements of the physical universe, including planets, stars, galaxies, and the history and future of the universe, with a focus on human efforts to understand these. How these studies helped mold and continue to be a part of the process of science will be explored.
SCI-125-A	Great Ideas in Natural Science	Chemistry			x	A look at how our understanding of the natural world has grown over the past 500 years. This course will examine a set of important concepts selected from the fields of astronomy, biology, chemistry, geology, physics, and psychology. Specific topics will include the origin of the universe, the atomic theory of matter, the chemical nature of the physical and biological systems and biological evolution. The growth of each topic will be traced through the accumulation of experimental evidence and the formulation of theories. Similarities and distinctions among topics will be highlighted.

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SCI-239-A	Arabic Science	Chemistry			x	In this J-term study abroad course, you will have an opportunity to study in a fascinating cross-cultural center of the world. We will examine how the migration of the Moorish people from Africa to Spain (711-1492) revolutionized sciences in Europe. Early advancements saw universities established, libraries created, and agricultural and medicinal advances revolutionize science in Europe. In the later stages of the Moorish people living in southern Spain, medicine and health knowledge grew greatly and the contributions of the Moorish people gave birth to higher level mathematics and natural sciences. This course will use science as the core content but will also look at how religion (Christianity and Islam) and other cultural norms played a role in the exchange and advancement of knowledge on both sides of the Mediterranean. The course starts in Morocco, looking at famous scientific works that were completed by Arabic Scholars in the time period, specifically in Fes and Marrakesh. The course then continues to Spain where we focus on Cordoba while also visiting Seville and Grenada. All the time learning how the advances of these amazing scholars shaped the history of our current knowledge.
SCI-240-A	Pathophysiology	Biology			x	This course offers a foundation in understanding the molecular, cellular/tissue, and organ system changes that are present in numerous disease states and injuries. Mechanisms and etiologies of selected pathophysiological processes will be utilized to understand the evidence of disease and its clinical manifestations. These principles will enable the student to frame clinical problems through the critical thinking process.
SCI-250-A	Clinical Pharmacology	Biology			x	This course provides a basic understanding of pharmacology as a foundation for clinical education in the appropriate and safe use of medications. Fundamental concepts including pharmacokinetics, pharmacodynamics and pharmacogenetics will be covered along with an in-depth analysis of important medication classifications. The laboratory component of the course will provide opportunities to apply pharmacological knowledge in a context that realistically models patient care.
SOC-101-A	Intro To Sociology	Sociology, Anthropology & Social Work		x		Introduction to theoretical perspectives and foundational principles of "thinking sociologically." Students will learn sociological tools of analysis and apply to the study of human behavior in groups and social systems. Key concepts include: socialization, culture, inequality/poverty, deviance/crime, gender, social construction of reality, social change, and social structure.
SOC-179-A	What Makes Right?	Sociology, Anthropology & Social Work			x	Using the most recent sociological research and theories on rightist movements, such as Islamist insurgencies and Christian nationalism, students will learn the fundamentals of global nativist and violent movements and how they shape and develop on the individual and societal levels. This course brings together various topics on a global scale, e.g., religion & violence, rightist groups social media activism, rightist extremism, mass shootings, terrorism, conspiracy theories, women of the right, etc. Particularly, we will discuss the grassroots organizing, mobilization theories, and the role of culture in shaping nativist and violent movements across the world.
SOC-185-A	Drugs and Society	Sociology, Anthropology & Social Work			x	This course will study Wal-Mart in order to examine cultural, social, and economic dynamics of contemporary American life. Economic topics include: prices, labor markets, working conditions, growth of discount retailers, globalized supply chains, and unions. Socio-cultural topics include: consumer behavior, social class and lifestyle, identity, consumer culture, anti-sweatshop activism, and community conflict over new Wal-Mart stores.
SOC-248-A	Friend or Foe?: Policing	Sociology, Anthropology & Social Work			x	Using sociological perspectives, a wide variety of topics in policing, including the militarization of the law enforcement, law enforcement & white supremacy, criminalization, incarceration and race, police violence, pro-police and anti-police contentions in the US, etc. will be introduced. This course improves students' understanding of various regimes of inequality and surveillance in the US.
SOC-253-A	Crime and Deviance	Sociology, Anthropology & Social Work			x	A theoretical analysis of the relationship of deviant behavior and subcultures to community standards of conventional behavior as expressed in law and norms, as well as an analysis of the extent, distribution, and character of crime and delinquency.
SOC-261-A	Social Conflict	Sociology, Anthropology & Social Work			x	Course will examine the origin, escalation, and resolution of social conflict at three levels: interpersonal, intergroup (e.g. ethnic group, economic class), and international. Focuses on major causes of conflict including: ethnic identity, competition for material resources, and ideological differences. Expressions of conflict will be examined including: hatred, electoral action, labor union activity, violence, war, and terrorism. Interventions to minimize the negative social impacts of conflict will be considered for each level of conflict. Offered alternate years.
SOC-270-A	Haters Gonna Hate:Hate Crimes	Sociology, Anthropology & Social Work		x		The goal of this course is to provide an exploration into the social, legal, and ethical implications of hate-fueled interactions, with a focus on violence, crime, and bigotry in the United States. Specifically, we will use a sociological lens to identify the form and function of hate groups, analyze the rise in hate crimes over time, and consider social and legal efforts to curb such acts.
SOC-273-A	Crime and Media	Sociology, Anthropology & Social Work			x	This course examines relationships between elements of the criminal justice system and elements of the mass media, and how each influences the other. Included will be discussion of crime depiction in news media (TV, newspapers, internet), crime depiction in entertainment media (music, TV, video games, film) and use of media/media technology by law enforcement and criminal defendants.

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SOC-287-A	Wealth, Poverty and Class	Sociology, Anthropology & Social Work	x			Wealth inequality, or the gap between poor, middle-class, wealth and super-rich people in the United States, has grown dramatically over the past few decades. What is social class? How does it affect our lives? Why do some have more resources than others, and thus, better opportunities? This course will tackle these questions and more about this deeply social and fundamental topic in the discipline of sociology. We will examine basic theories about social stratification, of wealth and income accumulation and distribution, as well as the particular lived experiences of various social classes.
SOC-290-A	Visual Sociology	Sociology, Anthropology & Social Work			x	In this course students will explore the theory and method of visual sociology and have the opportunity to pursue their own projects. As a group and individually, we will explore the social milieu from a visual perspective to answer such questions as: What does the visual world tell us about our society? What meaning and importance do we attach to the visual? What can we learn about human behavior by examining visual culture? Students will collect their own data, analyze it, and report their findings. Camera needed (of any type).
SOC-301-A	Research Methodology	Sociology, Anthropology & Social Work			x	Examines the process of conducting and evaluating sociological research. Areas of emphasis include: research design, techniques of sampling, methods of data collection, principles of measurement, basic methods of data analysis, and ethical considerations.
SOC-345-A	Constructs of Race and Racial	Sociology, Anthropology & Social Work		x		This course examines the social construction of race as a concept and the racialization of US society. An assessment of how racialization has changed over time and has created various interactions between groups from Whites and enslaved Africans, Mexicans and Native Americans to present day race relations. We also examine how racialization both determines and impacts social structures and the attainment of societal honors, rewards and power in modern society. (Same as AFRS 345 and IDS 345)
SOC-350-A	Social Statistics	Sociology, Anthropology & Social Work			x	A first course in applied statistics that introduces descriptive and inferential statistics with a focus on developing and testing sociological hypotheses using quantitative data. Students will use statistical software to input and analyze their own small-scale survey data, as well as develop and test hypotheses using large, publicly available sociological datasets.
SOC-358-A	Who Am I? Self and Society	Sociology, Anthropology & Social Work			x	A study of the relationship between the individual and society and the interactions produced. Emphasis on sociological research in the areas of self, identity, symbolic interaction, and social movements.
SOC-468-A	Sem:Gender/Globalization/Dev	Sociology, Anthropology & Social Work	x			In this course we will examine the phenomena of globalization and development from a sociology of gender perspective. We will focus on the global intersections of contemporary societies and cultures, and the gendered dynamics therein. Questions we will raise include: How does globalization affect women's and men's lives? How is power distributed, and how does this impact development processes? What impact do gender dynamics play in the social institutions of development: economic, political, and cultural? (Same as IDS 468)
SOC-472-A	Sem:Social Institutions	Sociology, Anthropology & Social Work	x			An examination of selected major social institutions in American society (family, education, religion, politics, or industry), as well as their intersections and maintenance in social life.
SPAN-101-A	Elementary Spanish I	Modern Languages & Cultures			x	Introduction to effective communication in Spanish, including speaking, listening, reading, writing and intercultural skills.
SPAN-102-A	Elementary Spanish II	Modern Languages & Cultures			x	Continued development in introductory skills needed for effective communication in Spanish, including speaking, listening, reading, writing and intercultural skills.
SPAN-201-A	Intermediate Spanish	Modern Languages & Cultures			x	This course is for students who have successfully completed at least one year of college-level Spanish or the equivalent. Development of intermediate skills needed for communicating in Spanish, including speaking, listening, reading, writing and intercultural skills.
SPAN-220-A	Spanish for Heritage Learners	Modern Languages & Cultures			x	Spanish for Heritage Learners is a class for students who have heard and spoken Spanish at home but may not have had any formal instruction in the language. Students will develop and enhance their linguistics and intercultural skills through opportunities to listen, read, write and communicate effectively in Spanish. Materials and activities are aimed to expand students' vocabulary, improve their command of grammar and spelling, facilitate expression with more fluency and confidence, as well as help them analyze and interpret texts, write about formal issues, better understand historical and cultural issues relevant to the Spanish-speaking world, including their own, and situate and reflect upon their cultural experience within the broader sociocultural context of the United States.
SPAN-302-A	Effective Speaking in Spanish	Modern Languages & Cultures			x	This is a course for students who have completed intermediate-level coursework in Spanish and who have a solid background in Spanish grammar. Focus on developing speaking and listening skills, increasing proficiency in extended narration and dialogue developing knowledge of Spanish-speaking cultures and improving intercultural communication skills.

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SPAN-303-A	Effective Writing	Modern Languages & Cultures			x	This is a course for students who have completed intermediate-level coursework in Spanish and who have a solid background in Spanish grammar. Focus on developing skills in writing and reading comprehension in a variety of cultural contexts, as well as improving intercultural communication skills.
SPAN-340-A	Lng Cul Span-Spk Wrld	Modern Languages & Cultures			x	This January-term study abroad course will introduce students to the culture of a Spanish-speaking country first-hand. Course locations may include Peru, Dominican Republic, Spain, Ecuador, Mexico, Argentina and other countries where Spanish is an official language. In addition to language and culture instruction at a local institution, students will live with host families and participate in guided visits to sites that illustrate the diverse cultural history of the country. This course satisfies the immersion requirement for the Spanish minor. All interested students must complete an interview with the instructor prior to enrollment. May be repeated for credit up to three times in three different locations.
SPAN-341-A	Spanish Medical Professionals	Modern Languages & Cultures			x	This course is designed for students studying to become healthcare professionals and who require training in Spanish to serve Spanish-speaking clients in hospital or clinical settings. In addition to exploring medical terminology related to the human body, illnesses and treatments, we will also study communication between Spanish-speaking clients and English-speaking providers in U.S. clinical settings. The course takes place abroad in Spain or Latin America and thus fulfills the immersion requirement for the Spanish minor. In addition to academic work, students will live with host families; visit local clinics, hospitals or medical offices; and participate in guided tours to sites that illustrate the diverse cultural history of the country. All interested students must complete an interview with the instructor prior to enrollment.
SPAN-346-A	Exploring Hispanic	Modern Languages & Cultures			x	In this course students will study a range of texts and forms of cultural production from the Spanish-speaking world (literature, visual art, journalism, film, television, digital media) in order to better understand the cultures that produced them. Students will build skills in analysis, comparison, and interpretation of both written and visual texts, as well as develop an understanding of how stories both shape and are shaped by their cultural context.
SPAN-360-A	Cultural Expressions	Modern Languages & Cultures			x	In this course students examine the Spanish-speaking world through its cultural products (literature, film, visual arts, television, music, and news media) and its intercultural relationships (women's literature across Hispanic cultures; social and artistic revolutions across Hispanic cultures; migrations in the Spanish-speaking world; approaches to the natural world and environmental concerns in Hispanic cultures). Course topics rotate so that students can take the course up to three times for credit under different topics.
SW-101-A	Intro To Soc Work & Soc Welf	Sociology, Anthropology & Social Work			x	A survey course covering the development of the social welfare institution and the social work profession in the United States. Included is information on how social welfare and social work impact diverse populations, populations at risk, and promotion of social and economic justice in our society. Content on social work values and ethics is interspersed throughout the course.
SW-102-A	Social Work Field Experience	Sociology, Anthropology & Social Work			x	Full time supervised field experience as a participant-observer in a social service agency.
SW-201-A	Fund of Social Work Pract I	Sociology, Anthropology & Social Work		x		An introduction to the generalist method of social work practice that includes the study and practice of basic counseling skills. This course provides a foundation model for social work practice which is built and expanded upon in SW 301 and SW 401.
SW-204-A	Human Behv in Soc Env I	Sociology, Anthropology & Social Work		x		This course focuses on theories of human behavior and the interaction between behavior and the social environment. The course develops a conceptual framework for social work practice by examining knowledge and theory related to the development of human behavior across the life span in relation to individuals' emotional, spiritual, physical, intellectual, social and cultural contexts. A life cycle approach is used to understand the experience of individuals in their environment and explore theories of human behavior and responses to life cycle challenges. Human diversity, global perspectives, and an ecosystems approach to understanding human behavior are emphasized.
SW-301-A	Social Work Pract II	Sociology, Anthropology & Social Work		x		Applies the generalist model learned in SW 201 to social work practice with families and groups. Skills for family and group work are developed through a laboratory group and an experience leading a group in the community.
SW-303-A	Hum Behavior in Soc Env II	Sociology, Anthropology & Social Work		x		This course describes how organizations, communities, society and the natural environment impact individuals, families, and groups. A social justice lens will be used to understand the dynamic interaction among systems in the macro social environment. A key focus is on the interplay between human behavior and the physical, social and political environment. Special attention is given to global perspectives, issues of human diversity in a macro context, and self-examination in relation to ethical and human diversity issues.

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SW-304-A	Social Welfare Policy & Issues	Sociology, Anthropology & Social Work		x		An examination of social welfare policy as a dimension of generalist social work practice. Includes a study of contemporary social welfare issues, programs and legislation. Emphasis is placed on issues relating to how social policy impacts human diversity, populations at risk, and social and economic justice in the United States. Content on social work values and ethics is interspersed throughout the course.
SW-305-A	Research Methods for Soc Work	Sociology, Anthropology & Social Work			x	An introduction to social work research designed to increase the generalist practitioner's ability to understand, evaluate, and utilize the research literature for practice. A wide variety of social work research methods are examined with an emphasis on doing practice research.
SW-401-A	Social Work Practice III	Sociology, Anthropology & Social Work		x		Application of the generalist model to working with task groups in organizations and communities and how this work impacts human diversity, populations at risk, and social and economic justice. Content on social work values and ethics is interspersed throughout the course. A knowledge base and skills for community social work will be developed.
SW-403-A	Professional Seminar	Sociology, Anthropology & Social Work			x	Emphasis on integration of previous course content and the application of social work ethics, values, skills, and knowledge. Work-related issues of field placement are studied in preparation for generalist social work practice. Students give presentations to the class based upon their field learning. Taken concurrently with SW 402.
THTR-105-A	Acting Contemporary Plays	Visual and Performing Arts			x	Students of all experience levels apply foundational acting technique to create and perform richly detailed characters. Our focus in this class will be on scene study and play analysis as drivers of creative expression. This class explores techniques derived and adapted from the work of Stanislavki in order to perform scenes from contemporary plays.
THTR-127-A	Design I: Visual Principles	Visual and Performing Arts			x	A study of the relationship between the performer, the elements of art, and the principles of design. Through a wide variety of hands-on exercises, students will explore how design can enhance the performer's ability to express thoughts, emotions, and ideas. Areas of study will include the designer's vocabulary and means of expression; the connection between design, the performer, and the audience; and methods of articulating visually to various audiences.
THTR-139-A	Theatre in the US:New York	Visual and Performing Arts			x	This domestic study away course is designed to establish a foundational knowledge of the language of theatrical performance and the tools for analyzing theatrical productions. Students will spend part of the term on campus preparing the skills and knowledge base to be both informed audience members and capable travelers. While in New York, students will explore the cultural context that produces the variety of theatre they will see. A final paper will trace the ways in which theatre responds to the culture that created it.
THTR-204-A	Lighting Design	Visual and Performing Arts			x	A study of lighting for the performing arts and an introduction to and practice in theatrical stage lighting. Coursework will cover the function of light in design; lighting equipment and terminology; communication graphics through practical laboratory explorations. Application of principles for performance events and contemporary lighting problems will be studied through extensive hands-on applications.
THTR-205-A	Acting II	Visual and Performing Arts			x	Building on concepts established in Acting I, this course allows students to deepen their character analyses, strengthen their imaginative work, and explore different practices to achieve greater emotional freedom. Sanford Meisner's work continues to inform the structure of this class, but students will also engage with elements from other acting theories.
THTR-208-A	Acting: Musical Theatre	Visual and Performing Arts			x	In Acting:Musical Theatre students will build a common foundation of performance for actors and singers of all experience levels. In this course, the actor is treated as a complete artist: imaginative, expressive, intellectual, physical, and emotional. Because of the nature of musical theatre, students will both work to free their vocal instrument and hone their analytical skills in order to portray complex characters in the heightened circumstances of song. Students will exercise their creativity while developing their expressivity as they work on partnered songs and solo work. This course may not be used in the theatre major or minor.
THTR-222-A	Acting Shakespeare's Plays	Visual and Performing Arts			x	The plays of William Shakespeare provide rich material for actors of all experience levels to create characters and develop their expressive skills. This course will place a special emphasis on freeing the actor's voice for use as a primary vehicle for conveying meaning. Students will develop tools for analyzing, speaking, and embodying characters through scene and monologue work. Learning the structure of Shakespeare's text will enable students to use it as a springboard for action, emotion, and character.
THTR-305-A	Acting:ST:Improvisation	Visual and Performing Arts			x	

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THTR-308-A	Voice for Musical Theatre	Visual and Performing Arts			x	A course focused on the particulars of vocal production for musical theatre. Emphasis in this class is given to analysis of the musical information contained in the libretto for character and storytelling insights. Students will also engage with the stylistic challenges of singing for a variety of subgenres within musical theatre. Review of music theory, including intervals, notation, musical vocabulary and rhythm. Work on acquiring these skills through sight singing. This course may not be used in the theatre major or minor.
THTR-351-A	Theatre History I	Visual and Performing Arts			x	A study of major developments in the theatre - playwriting, acting, staging, architecture - from their roots through the 1850's, with reading of numerous representative plays. A study of theatre around the world from primitive rituals to classical Greek and Roman, Indian, Chinese, Japanese, and African theatre and native performance. The plays, period developments, and movements studies will provide foundation for discussion of how modern readers and audiences can have a meaningful encounter with these ancient works.
THTR-352-A	Theatre History II	Visual and Performing Arts			x	A study of the development of the modern theatre, its drama, and its stage crafts, from 1850 through the present, with reading of numerous representative plays. Attention is paid to the major social changes in relevant world cultures that lead to developments in performance.
THTR-353-A	History of Musical Theatre	Visual and Performing Arts			x	A survey of the development of musical theatre from its origins to the present day. Research into the historical major figures and productions, with attention paid to social, cultural, political and commercial influences. Review of music theory, including intervals, notation, music vocabulary and rhythm through musical theatre examples.
VC-150-A	Intro to Visual Communication	Visual and Performing Arts			x	This course introduces students to key concepts required to navigate a world increasingly dominated by visual experience. In conjunction with providing tools for encountering this continually evolving world, students are introduced to the fundamentals of the digital tools used in the creation of graphics, visual persuasion, color, imaging, design thinking and ethics. Current trends and issues will also be substantively addressed in an environment that introduces student to the intersectional nature of the major.
VC-290-A	Visual Communication	Visual and Performing Arts			x	In this unique Global Learning opportunity students will produce Visual Communication Design works in the context of the diverse multicultural community of Berlin, Germany. Focusing on Visual Communication Design students will address wicked problems from a site-specific, community-centered design approach. This course will also require students to challenge and apply their theoretical knowledge in the diverse and hybrid spaces of Berlin, engaging artists, refugees, filmmakers, social workers, architects and planners.