

## KEENE STATE COLLEGE UNDERGRADUATE SUSTAINABILITY COURSE INVENTORY<sup>1</sup>

REFLECTING FY 2017-2018, 2018-2019, 2019-2020

Keene State College embraces the AASHE STARS holistic definition of sustainability that encompasses the UN Sustainable Development Goals and the Earth Charter (<https://stars.aashe.org/resources-support/help-center/the-basics/what-is-sustainability/>). The College considers both environmental and human sustainability and also references the “Doughnut of Social and Environmental Boundaries” that brings together planetary boundaries (environmental sustainability) with human sustainability. Taken together, these three frameworks articulate the priority sustainability challenges KSC considers when developing its course inventory. The following course inventory reflects this perspective. We identify courses that address the “interdependence of ecological and social/economic systems” or a major sustainability challenge as defined by the UNSDGS and/or Earth Charter, especially in the areas of:

- Poverty
- Good health, food security, nutrition and well-being
- Human and ecological health
- Environmental degradation and ecological integrity
- Climate change
- Affordable and clean energy
- Biodiversity loss
- Water resources and pollution
- Economic inequality and social justice
- Sustainably built and natural environments
- Responsible consumption
- Peace and justice
- Gender equality.

We include courses from KSC’s School for Sciences, Sustainability, and Health, *as well as* the School of Arts, Education, and Humanities, recognizing that a holistic sustainability must address both sides of the human coin. All courses included in this inventory either directly address sustainability as a major theme, or include sustainability in the coursework.

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<sup>1</sup> This inventory focuses on KSC’s undergraduate classes. Information on Master’s Programs can be found at: <http://www.keene.edu/academics/graduate/>  
KSC Sustainability Course Inventory Academic Years 2017-18, 2018-19, 2019-20

TITLE	DEPARTMENT	LEVEL	DESCRIPTION	SUSTAINABILITY COURSE <sup>2</sup>	COURSE CONTAINS SUSTAINABILITY CONTENT <sup>3</sup>
1. IHAMST248 Cultures of Northern Plains Indians	AMERICAN STUDIES	UG	An introduction to American Indian studies through the perspectives of Northern Plains Indians, focusing on Plains Indians' literature, music, art, Indian law, history, and philosophy. As a place-based culture, this course also describes attitudes and ethics of land stewardship. Annually.		X
2. AMST363 Writing in An Endangered World	AMST	UG	This course traces environmentalism as a social movement in relation to the development of environmental writing. Students will consider the relationship between literature and social change, the development of literary strategies in environmental writing, and commentaries on the environmental movement by cultural critics and environmental historians in developing countries. Fall, odd years.	X	
3. ISANTH110 Cultural Anthropology	ANTHROPOLOGY	UG	Introduction to anthropological knowledge and understanding of human cultures and societies. Cross-cultural comparison and review of tribal and industrialized societies and their connection to earth, and approaches to interacting with their places. Application of anthropological concepts to provide understanding of other cultures and one's own culture. Fall, Spring.		X
4. ISANTH111 Archeology and Physical Anthropology	ANTH	UG	An introduction to the biological and cultural evolution of human beings. In addition to the prehistoric record, the course will cover primatology, human variation, and problems of theory and practice in archeology. This is foundational understanding for learning about human's emergence from the earth and humans' original connections to the environment. Fall, Spring.		X
5. ANTH315 Gender and Culture	ANTH	UG	This course examines the ideology and social reality of sex, gender, and sexuality cross-culturally. The intersection of these identities with class, race and other social categories will be emphasized. The course covers various theoretical approaches and explores the ethnographic literature. Fall.	X	

<sup>2</sup> Class is focused primarily on sustainability; primary and explicit focus on sustainability; and/or understanding or solving one or more major sustainability challenge.

<sup>3</sup> Sustainability is included as a portion of class.

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6. ISANTH320 Magic, Witchcraft, and Religion	ANTH	UG	This course will provide a holistic and comparative approach to the study of religious beliefs and practices. Students will explore magical and religious behavior, ritual, myth, shamanism, curing, spirit possession, ancestor worship, witchcraft, and millennial and counter-cultural movements in a variety of tribal and state societies. Witchcraft is an inherently earth-based religion and this course helps articulate a sacred earth perspective. Spring, odd years.	X	
7. ANTH323 Anthropology of Conflict and Violence	ANTH	UG	This course focuses on the nature of conflict in human societies around the world and examines the roles of violence from a cross-cultural and interdisciplinary perspectives. Conflict and violence are studied in societies ranging from food-foragers to complex states to explore the consequences of what is labeled "violence." Spring, even years.	X	
8. ARCH180 Introduction to Architectural Design	ARCHITECTURE	UG	Introduction to the principles of architectural design through lectures and short design exercises. Emphasis is placed on developing visual communication skills necessary and related to architectural presentation including drawing, drafting, and model making techniques. A final design project provides the framework for investigating and understanding the fundamental elements, design principles, and processes necessary to explore the creation of architectural spaces. The emphasis of KSC architecture is a "green" perspective, so all courses address sustainability. Fall, Spring.		X
9. ARCH230 Architectural Design I	ARCH	UG	Studio investigations of fundamental design concepts, principles, and elements. Projects and exercises focus on the creation of abstract architectural forms and spaces through an exploration of shape, hierarchy, organization, scale, proportion, materials, and light. Studio Design courses should be taken in sequence. The emphasis of KSC architecture is a "green" perspective, so all courses address sustainability. Fall.		X
10. ARCH235 Architectural Design II	ARCH	UG	Studio investigations of fundamental design concepts, principles, and processes. Projects focus on the creation of		X

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			both abstract and programmed architectural forms and spaces with an emphasis on formal and aesthetic values and the development of a visual vocabulary. The exercises are oriented toward the achievement of creative individual expression. The emphasis of KSC architecture is a “green” perspective, so all courses address sustainability. Fall only.		
11. ARCH260 Sustainable Design and Building Science	ARCH	UG	Study of energy issues, sustainable building design, and introduction to building science. Focus is on energy-efficient buildings, solar energy systems, related environmental issues, and basics of building science. Projects involve energy analysis of buildings, evaluation of renewable energy options, world energy issues, critical design decisions for building, and building forensics. Fall.	X	
12. ARCH270 Commercial Construction	ARCH	UG	Introduction of the processes of commercial building, including environmental and regulatory factors and analysis of foundation components and structural and enclosure building systems. Lectures, site visits, and projects present students with an array of technical challenges in building design. Focus is on analyzing and designing architectural details for a variety of building materials. Spring.		X
13. ARCH275 Residential Construction	ARCH	UG	A study of residential construction technology systems, including the planning, materials and processes used by building contractors to build residential structures. The interrelationship of societal needs, the environment, and quality of life as they affect building design and construction practices are examined. Two-hour lecture, three-hour lab. Fall, Spring.		X
14. ARCH280 Collaborative Architectural Project	ARCH	UG	Project-centered course emphasizing team approach to solving complex architectural problems. Students conduct architectural projects in the local community for a specific client and site. Involves site planning, programming, schematic design, and project management. The emphasis of KSC architecture is a “green” perspective, so all courses address sustainability. Spring.		X

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15. ARCH330 Architectural Design III	ARCH	UG	Intermediate-level design investigations based upon the generation of architectural solutions with particular emphasis on formal, functional, and materialization concerns. Projects and exercises focus on the analysis and synthesis of built form with investigations into historical precedents; human factors; site, environmental, and contextual influences; and identification of materials. The emphasis of KSC architecture is a “green” perspective, so all courses address sustainability. Spring.		X
16. ARCH360 Solar Design and Building Science II	ARCH	UG	Designing Passive and Active Solar Systems for buildings, performance modeling, and advanced building science. Includes basic principles, performance calculations, design optimization, architectural integration of solar energy systems, air quality, and moisture control. Students design combined solar systems applying principles of advanced building science. Spring.	X	
17. ARCH370 Architectural Systems	ARCH	UG	Designing mechanical and electrical systems in the context of high-performance buildings. Course applies scientific principles in designing water-supply systems, heating, cooling, electrical services, lighting, and sound control, extending the understanding of healthy buildings design. Emphasizes the principles and concepts to help students design a variety of systems while creating healthy buildings. Fall.	X	
18. ARCH430 Architectural Design IV	ARCH	UG	Advanced architectural design of complex building programs. Emphasis on analysis and synthesis of design solutions, including aesthetic principles, satisfaction of programmatic and human concerns, integrating forms in urban or natural context, and identification of appropriate building tectonics. Research is performed on building type and relevant architectural references. The emphasis of KSC architecture is a “green” perspective, so all courses address sustainability. Fall.		X
19. ARCH480 Senior Design Project	ARCH	UG	Culminating course in the architecture program where each senior defines and develops a complete design and set of		X

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			drawings for a real client and site. The course emphasizes group interaction, peer review, and evaluation by independent architects. The emphasis of KSC architecture is a “green” perspective, so all courses address sustainability. Spring.		
20. IAART103 Three-Dimensional Design	ART	UG	A comprehensive exploration of the properties of natural and human-made volumes and spaces. Projects involve sculptural objects, and architectural and environmental design. Studio projects are completed outside of class. Fall and Spring.		X
21. IAART110 Introduction to Art History	ART	UG	General survey of the history of art and architecture from the ancient to modern periods. The course will explore the roles of the artist, art patron, and viewer in society, and feature in-depth analysis and contextual interpretation of works from a select number of world cultures, regions, and stylistic traditions. Art takes place in the context of places and is influenced by historical, cultural, and environmental conditions, which are all discussed when considering a work of art. Fall, Spring.		X
22. ART214 Modern Art	ART	UG	The history of modern art in Europe and North America from the mid-19th century through the postmodern turn and contemporary practices. An emphasis will be placed on formal innovations and artistic responses to changes taking place in the greater socio-historic and environmental context and thus addresses the interdependence of these factors. Fall even years.		X
23. ART260 Graphic Design Thinking	ART	UG	This course explores the relationships between idea and form in creating effective design and powerful graphic messages. Many of the images and messages studied and developed in this class relate to contemporary topics, such as justice and sustainability. Assignments reinforce concept development, typographic hierarchy, design composition, and production skills. Spring.		X
24. IAART332 Printmaking - Nature and Color	ART	UG	Through projects, demonstrations, and visual media, students will investigate the color linocut printmaking process. Emphasis will be placed on developing microscopic		X

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			biological imagery in relation to natural design and color. Color theory will be explored through contemporary print practice and the history of printmaking, including 19th century Japanese prints. Annually.		
25. ART 361 Graphic Design History	ART	UG	Survey of the cultural prevalence and social significance of graphic design throughout history. Students analyze and produce graphic design communication while contextualizing design within a social, economic, environmental, political, and cultural landscape. Fall, Spring.		X
26. IAART391 Global Perspectives	ART	UG	Art history topics vary and could include the exploration of non-Western visual cultures, non-traditional artistic media, or critical themes (postcolonialism, gender, institutional critique, political theory, etc.) as they relate to globalization and the visual arts. May be repeated as topics change. Spring.		X
27. INBIO101 Topics in Biology	BIOLOGY	UG	An exploration of biological issues and methods for nonmajors. Applying basic principles to modern problems, the course may focus on a theme such as evolution and conservation of biodiversity, plants and society, or ecology and environmental issues. Can be repeated for elective credit but not ISP credit as topics change. Fall, Spring.		X
28. INBIO104 Lab Biology Topics	BIO	UG	An integrated lecture-lab course for nonmajors that explores biological topics through hands-on investigative activities. Will focus on a theme, such as marine biology or ecology. Can be repeated for elective credit but not ISP credit as topics change. Will satisfy the lab science requirement for education majors. Fall, Spring.		X
29. INBIO105 Tropical Marine Biology	BIO	UG	Students will learn basics in tropical marine biology through class and lab activities involving live marine organisms. This includes a significant consideration of ecology and the effects of human activity and climate change on coral reefs. The course requires a week-long field trip to the Turks and Caicos Islands for SCUBA diving, snorkeling, kayaking and other excursions. Prerequisite: Permission of instructor. Spring.		X

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30. BIO111 Evolution and Ecology	BIO	UG	An integrated lecture-lab experience that introduces the basic principles of evolution and ecology. Students investigate the causes and consequences of organismal diversity, both within and among species. Lab and field projects teach the scientific method. Spring, Fall.		X
31. INBIO202 Conservation in the Sea	BIO	UG	This integrated lecture-lab course explores the challenges and approaches currently used in marine conservation. This course emphasizes scientific literacy, interpretation of quantitative data, and critical thinking, and satisfies the lab science requirement for education majors. Occasionally.	X	
32. INBIO203 Biology of Plagues	BIO	UG	There are a handful of disease-causing microbes on Earth that greatly affect human society. What makes these microbes deadly and how do we respond? This is an integrated lecture-lab course that addresses this topic. Occasionally.		X
33. INBIO300 Advanced Topics in Biology	BIO	UG	Topics in the biological sciences such as genetics, health, ecology, and others will be explored at an in-depth level. Socially relevant and ethical issues such as AIDS, genetic engineering, embryo research, environmental crises and other issues will be emphasized. Fall, Spring.		X
34. BIO379 Comparative Animal Physiology	BIO	UG	An integrated lecture-lab experience that investigates how animals function in their environment through the comparison of different strategies for solving fundamental physiological problems, including those of gas exchange, food acquisition and digestion, maintenance of water and ion balance, and reproduction. Occasionally.		X
35. BIO380 Endocrinology and Endocrine Disruption	BIO	UG	An exploration of endocrine systems and the hormonal regulation of physiological function in vertebrates and invertebrates. This integrated lecture-lab course will also investigate the phenomenon of endocrine disruption or how man-made chemicals are interfering with hormone function in animals, including humans. Students will read, analyze, and present primary scientific literature. Occasionally.		X
36. BIO433 Invertebrate Zoology	BIO	UG	An integrated lecture-lab course focusing on invertebrate anatomy, physiology, behavior, development, ecology,		X



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			natural history, evolution, and systematics. Field trips may be required. Fall, even years.		
37. BIO434 Vertebrate Zoology	BIO	UG	Integrated lecture, laboratory, and field course focusing on vertebrate anatomy, physiology, behavior, ecology, natural history, evolution, systematics, and conservation. Students will become acquainted with local vertebrate communities and with primary research literature and research methods. Field trips may be required. Fall, odd years.		X
38. BIO335 Ornithology	BIO	UG	Integrated lecture, lab and field activities introduce important features of avian anatomy, physiology, behavior, life histories, breeding, ecology, conservation, evolution, and systematics. Students will gain experience in ornithological research and will practice species identification and field observation and reporting. Field trips may be required. Occasionally.		X
39. BIO443 Experimental Marine Ecology	BIO	UG	An integrated lecture-lab course exploring the processes that structure nearshore marine ecosystems. Required field and lab projects are used to teach experimental design, data analysis and scientific communication, as well as the identification and natural history of local marine organisms. Fall, odd years.		X
40. BIO445 Animal Behavior	BIO	UG	An integrated lecture-lab course that examines how interactions between genes, physiology, development, and the environment determine animal behavior; the adaptive value of behavior; and how behavior has changed over evolutionary time. This course will also involve exercises designed to instruct students in the process of conducting independent research in animal behavior. Fall, odd years.		X
41. BIO463 Plant Biology	BIO	UG	A lecture and laboratory course emphasizing the fundamental principles in plant biology, including systematics and evolution, anatomy and morphology, physiology, biotechnology, ecology, conservation biology, and ethnobotany. Lab and field projects will provide first-hand experience with organisms, the process of scientific inquiry, and scientific writing skills. Fall, even years.		X

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42. BIO467 Microbial Diversity	BIO	UG	An introduction to the microbial world emphasizing biological diversity. Topics include fundamentals of microbial cell biology, physiology, metabolism, genetics, evolution, classification and ecology. Laboratory experience emphasizes a research perspective and includes isolation, culture, enumeration, characterization and classification of microbes found in the environment. Fall.		X
43. MGT101 Introduction to Management	BUSINESS MANAGEMENT		An examination of the principles underlying the management of organizational activities. Management theory and practice including: planning, organizing, leading, and controlling; decision making, motivation, leadership, and communication will be covered. Topics also include: globalization, technology, <u>corporate social responsibility</u> , ethics, conflict management, and organizational change. Fall, Spring		X
44. MGT215 Accounting for Sustainable Business	MGT	UG	This course introduces the analysis and reporting of accounting information, primarily for internal use by managers for decision-making. Topics include financial statements, the accounting cycle, cost behavior, cost allocation, and financial planning and control. Sustainability concepts and emerging measurement systems are introduced. Fall, Spring.		X
45. IIMGT305 Organizational Diversity	MGT	UG	Explores contemporary organizational diversity and multiculturalism from an interdisciplinary perspective, drawing from management, psychology, sociology, disability studies, feminist studies, and history. Specific topics will include understanding differences such as gender, race, ethnicity, age, religion, disability, appearance, and sexual orientation. Emphasis will be on addressing how organizations can become more inclusive. Annually.		X
46. MGT343 Consumer Behavior	MGT	UG	This course examines consumer decision-making and how consumer characteristics and consumption patterns impact marketing decisions and marketing programs. Internal influences (consumer motivation, personality, perception, learning, and attitude formation), external factors (social, cultural, and cross-cultural determinants of consumer		X

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			decision-making), and roles of ethics and social responsibility are discussed.		
47. MGT381 Management Information Systems	MGT	UG	Survey course based on the premise that information systems knowledge is essential for creating competitive firms, managing global corporations, adding business value, and producing useful products and services to customers. MIS themes may include: managing environmental systems, managing supply chains, managing human resource information systems, and managing globally dispersed teams. Fall, Spring.		X
48. MGT410 Principles of Investment	MGT	UG	Introduction to financial markets including the organization, regulation and ethics of national and international markets. Addresses socially responsible investing. Research, analysis, and valuation of financial instruments including equities, fixed income and leveraged securities, and derivatives are covered. Spring.		X
49. MGT451 Business and Society	MGT	UG	Advanced study of management philosophy and practice. Focus is on the manager's role as influencing and influenced by organizational structures, organization goals, and social, legal, political, and ecological constraints. Students are encouraged to develop a personal management philosophy. Fall, Spring.		X
50. CHEM490 Advanced Special Topics	CHEMISTRY	UG	Advanced topics in chemistry such as environmental chemistry, forensic chemistry, radiological health physics, solid-state chemistry, bio-organic chemistry, or others. May be repeated for credit as topics change. Occasionally.		X
51. COMM372 Intercultural Communication	COMM	UG	This course applies interpersonal and intercultural theories to the understanding of intercultural communication and the fostering of intercultural communication competence. Included in the inventory because of its emphasis on diversity, justice (sustainability challenges) and developing cultural competency. Occasionally.		X
52. CJS201 Corrections	CJS	UG	An overview of the correctional process with an emphasis on the social, political, and economic influences upon this process. Topics to be examined include the impact of race,		X

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			class, and gender on the correctional system; the uses and effectiveness of institutional placements; and intermediate sanctions and community-based programming. Included in inventory because it addresses a number of UN Development Goals/sustainability challenges: 5, Gender equality; 10, Reduced inequality; and those addressing poverty, hunger, education, work, and peace and justice. Fall.		
53. CJS240 Criminology	CJS	UG	An overview of the field of criminology. The areas considered range from the definitions, origins, and extent of crime and law, to causal theories of criminal behavior, to types of crimes and victims. Particularly stressed is an analysis of <u>the relationship between law and society and social structure to crime.</u> Included in inventory because it addresses a number of UN Development Goals/sustainability challenges: 5, Gender equality; 10, Reduced inequality; and those addressing poverty, hunger, education, work, and peace and justice; also the Earth Charter Principles of Social and Economic Justice and Democracy, Nonviolence, and Peace. Fall, Spring.		X
54. CJS250 Homeland Security	CJS	UG	Principles and practices associated with the emerging discipline of homeland security. Policies, directives, national plans, and legislation that shape and define the ongoing evolution of homeland security. <u>Key issues including civil liberties and diversity.</u> Relationship to public safety, private security, and national security. Included in the inventory because it addresses a number of UN Development Goals/sustainability challenges around equality/inequality; diversity; and peace and justice; also the Earth Charter Principles of Social and Economic Justice and Democracy, Nonviolence, and Peace. Fall		X
55. CJS320 Case Studies in Violence	CJS	UG	This course focuses on the various types of violence in our society including family violence, sexual violence, workplace violence, and so called "random actor" violence. Through readings and discussion, participants will examine the causes, key identifiers, consequences, and costs of violence. Included		X

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			in the inventory because of its focus on the sustainability challenges of nonviolence, peace, and justice. Fall.		
56. CJS340 Gender and the Law	CJS	UG	Examines the myriad ways law and policy affects our lives, from hiring practices to the creation and dissolution of family, from crime to sports and education through the lenses of legal theories that promise the most fair creation and application of law. Included in the inventory because of its focus on the UNSDGs and Earth Charter sustainability challenge of Gender Equality and the rights of women. Spring.		X
57. CJS352 Sociology of Deviance	CJS	UG	This course examines the processes involved in labeling behaviors and people as "deviant" within society. We will explore theories of why individuals engage in deviance as well as those discussing societal reactions to deviance. We will also explore popular forms of deviance in American culture through a theoretical lens. Included in the inventory because of its focus on the UNSDGs and Earth Charter sustainability challenges of social and economic justice, especially "discrimination in all its forms." Fall.		X
58. CJS461 White-Collar Crime	CJS	UG	This seminar focuses on occupational, corporate, and government crime viewed using a sociological lens. This course will explore the causes, consequences, and criminal justice system response to white-collar crime. This course is included in the inventory because white-collar crime often directly or indirectly underpins environmental disasters. Occasionally.		X
59. CJS463 Law and Society	CJS	UG	This seminar examines the justice system with reference to substantive and procedural laws, criminal and civil laws, and regulatory laws. We will also discuss the interrelationship among law and other social institutions and practices, including culture, politics, social inequality, and public policy issues concerning law enforcement and justice. Included in the inventory because of its focus on the UNSDGs and Earth Charter sustainability challenges of social inequality, justice, discrimination in all its forms. Occasionally.		X

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60. CJS465 Terrorism	CJS	UG	Offers historical perspectives of the current terrorist threat and challenges with a review of major terrorist groups and their strategies, tactics and targets. Limits on military and civil authority, jurisdictional issues, federal law enforcement and intelligence, anti- and counter-terrorist operations and operational techniques, and future trends will be discussed. Included in the inventory because of its focus on social and economic injustice and nonviolence and peace – essential sustainability challenges identified by the UNSDGs, Earth Charter, and others. Occasionally.		X
61. CJS471 Women and Crime	CJS	UG	Specifically concerns women and crime, a subfield within criminology. In addition to evaluating traditionally androcentric approaches to explaining criminality, we will also explore other intersections of women with criminal justice, including women as offenders, victims, and workers in criminal justice fields. Included in the inventory because of its emphasis on gender equality and other important UNSDG justice goals. Occasionally.	X	
62. CJS473 Race and Crime in the Media	CJS	UG	This course examines the relationship between crime, race, and the media, with a focus on media representations of race in the criminal justice system. We will explore current issues, highly publicized cases, and depictions of victims, offenders, and police as they are presented in film, television, news media, and print. Included in the inventory because of its focus on the UNSDGs and Earth Charter sustainability challenges of social and economic justice, especially “discrimination in all its forms.” Occasionally.	X	
63. IIECON310 Game Theory	ECONOMICS	UG	An introduction to game theory and strategic interactions with cases drawn from economics, business, politics, sociology, psychology, international studies, and sports. Topics include prisoner's dilemma, Nash equilibrium, backward induction, signaling, mixed strategies, cooperative and noncooperative games, bargaining, conventions, " <u>the tragedy of commons</u> ," evolutionary game theory, and behavioral critiques of rationality. Fall.		X

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64. IIECON320 Gender & Economic Development in a Globalizing World	ECON	UG	This interdisciplinary course aims to provide an overview of the processes, politics and policies of economic development through a gender lens. The course examines the impacts of economic development policy on men and women and on gender relations in Africa, Asia and Latin America, in the context of a globalizing world economy. The course draws from the fields of economics, international relations and women's studies. Fall or Spring, Alternate Years.	X	
65. ECON325 Economics of Discrimination	ECON	UG	Uses economic models to explore topics such as growing wage inequality, changing demand for children, occupational segregation by gender, economic assumptions behind affirmative action, and demand and supply of immigrant labor. Fall.	X	
66. ECON340 Environmental Economics	ECON	UG	Detailed evaluation of policy alternatives for environmental protection with regard to other economic goals. Fall.	X	
67. ECON460 Development Economics	ECON	UG	Addresses the complex nature of economic development, critically evaluates available theories of development and underdevelopment, and considers the scope and limits of economic policies to aid development. Development ethics, import substitution, export orientation, impact of trade liberalization, demographics and gender are among the topics covered. Occasionally.		X
68. ECON461 Economics of Public Policy	ECON	UG	Application of economic tools of analysis to public policy topics. Topics may include wage policy, health care, environmental, entitlement reform, fiscal policy, and other timely public policy issues. Students will each produce a scholarly product. Spring.		X
69. EDUC200 Social Contexts of Education	EDUCATION	UG	Critical analysis of educational systems within cultural, social, political, and economic contexts. Major issues in education are addressed through a variety of perspectives, including practices for democratizing classrooms and schools, teaching for social justice and equity in a diverse society, multicultural education, and school reform. Fall, Spring, Summer.		X

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70. EDUC203 Introduction to Meditation	EDU	UG	Students will experience the basic forms of mindfulness meditation - awareness of breath, body, sounds, thoughts, and feelings - mindfulness while doing yoga, and loving-kindness meditation. Students will experience various informal practices: mindfulness while eating, walking, and conversing, and doing routine activities. A focus on reducing stress is interwoven into the course. This course is included in the inventory because of the importance of mindfulness to cultivating sustainable behaviors and lifestyle.		X
71. IIEDUC306 Women and Education	EDU	UG	An exploration of schooling and its relationship to culture and society, focusing on women's role in education as both students and educators. Uses a historical, sociological, and feminist lens in examination of women's struggle for equality in education, with parallels drawn to struggles of other subjects of marginalization. Included in inventory because educating women is one of the top Project Drawdown actions for addressing climate change. Spring.	X	
72. IIEDUC310 Student Empowerment and Activism	EDU	UG	This interdisciplinary course traces roots and growth of student activism on local and national levels. It examines youth empowerment within the United States since 1960 using the disciplines of History and Political Science. Emphasis given to addressing how student activism in previous decades compares to 21st-century American student activism. Included in inventory because of student activism on environmental, climate justice, Black Lives Matters, and LGBTQ movements. Fall, Spring.		X
73. ENG203 Women's Writing	ENGLISH	UG	Writing about current political and feminist issues and how they impact all women; reading, writing, and research will explore the connections between the political and the personal. Included in the inventory because literature is an important way of exploring interrelated issues of gender equality, justice, and related UNSD and Earth Charter goals such as voice, peace and nonviolence, and education for women and girls. Fall.		X



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74. IIENG245 Readings in African American Literature and Culture	ENG	UG	An interdisciplinary introduction to African American literature and culture, which considers oral, written, and performed texts by African American cultural practitioners. Literary texts from 18th-, 19th-, and 20th-centuries. African American writers will be read in conversation with critical musical, political, and theoretical works. Included in the inventory because literature is an important way of exploring interrelated issues of social and economic equality/inequality, and discrimination in all its forms—important UNSDG and Earth Charter sustainability challenges. Fall.		X
75. IHENG251 Literature of the Holocaust	ENG	UG	Examines the culture of European Jews before the Holocaust and literature that reflects the destruction of that culture in World War II. Included in the inventory because this course is especially important in understanding foundational principles for UNSDG and Earth Charter sustainability challenges of peace and nonviolence. Spring.		X
76. IHENG260 Readings in World Literature	ENG	UG	Reading and discussion of selected literary texts from the ancient to the modern world. Course will investigate literary production and reception in relation to historical, social, religious, economic, environmental, biographical, or textual contexts. May be repeated once as topics change.		X
77. IIENG270 Literature and the Environment	ENG	UG	This interdisciplinary course introduces students to the traditions of environmental literature. Students will learn to think across the humanities, arts, and sciences. May explore a particular group of writers, genre, historical period, or bioregion. May be repeated once as topics change. Annually.	X	
78. ENG345 Studies in African American Literature	ENG	UG	Examines literary traditions of African American cultural practitioners, including relations between oral and literary works, performance and reading, tradition and innovation. Texts by Black writers from the 18th, 19th, and 20th centuries are read in conversation with those from the contemporary moment. Included in the inventory because literature is an important way of exploring interrelated issues of social and economic equality/inequality, and		X

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			discrimination in all its forms—important UNSDG and Earth Charter sustainability challenges. Annually.		
79. ENG 346 Transcendentalism	ENG	UG	Explores American Transcendentalism. Intensive reading and discussion of such writers as Emerson, Thoreau, Margaret Fuller, and Whitman. Alternate years.	X	
80. ENG347 American Indian Writers and their Cultures	ENG	UG	An interdisciplinary examination of the major novels, essays, and poems of American Indian writers since 1969 in relation to their cultural backgrounds: history, politics, and American Indian film. Students will explore topics such as resistance to colonization, preservation of history in oral traditions, stereotyping, and cultural genocide. Spring.	X	
81. ENG370 Studies in Literatures of the Americas	ENG	UG	Compares literatures such as those of Canada, the United States, and Central and South America. Attention to topics such as the writer's voice, interrogation of traditions, the constructions of literary geography. May be repeated as topics change. Alternate years.		X
82. ENG381 Women Writers	ENG	UG	Emphasis is on the images, forms, contexts that shape women's literary expression and that identify women's lives in cultural, social, political spheres. Annually.	X	
83. IENST110 Food, Health, and the Environment	ENVIRONMENTAL STUDIES	UG	This interdisciplinary course explores the connection between food choices and food production systems and their impact on public health and the environment. Considering social, political, economic, and ethical factors, students will compare different agricultural systems and assess the ecological footprint and sustainability of our daily decisions of what to eat. Fall, Spring.	X	
84. IENST150 Global Environmental Change	ENST	UG	Students will gain a basic scientific understanding of the Earth's major physical and biological systems within the context of global environmental issues, and will also explore global environmental change and potential solutions from interdisciplinary economic, ethical, political, and social perspectives. Fall, Spring.	X	
85. IENST151 The Environment of Central New England	ENST	UG	Introduces the geology and ecology, the natural and human history, and the social systems and governance structures that shape our regional environment. Explores the concept of	X	

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			place using interdisciplinary approaches, including hands-on field work, to prepare students to become responsible environmental stewards of the places where they live. Fall.		
86. ENST250 Principles of Sustainability	ENST	UG	Students evaluate worldviews and assumptions that brought us to the current crisis in worldwide environmental degradation and social injustice, and examine the more harmonious and sustainable relationship between humans and nature using systems-thinking, critical reflection, writing and contemplative practices. Spring. Fall.	X	
87. ENST251 Matter and Energy in the Environment	ENST	UG	Introduces fundamental concepts governing the distribution of matter and energy in the Earth systems that determine our environment. Field and laboratory exercises emphasize the basics of sampling and experimental design, hypothesis formation, data analysis, and interpretation. Spring. Fall.		X
88. ENST252 Ecology of A Changing Planet	ENST	UG	This integrated lecture-lab course will provide an understanding of biological and ecological principles and relate them to different environmental issues, such as global climate change, conservation of habitats and biodiversity, land use change, and pollution. Field and lab exercises emphasize sampling and experimental design, hypothesis formation, data analysis, and interpretation. Fall.	X	
89. ENST253 Environmental Governance	ENST	UG	Making environmental decisions is extremely challenging due to the complex interaction of science, politics, associated uncertainties, conflicting individual/social values, and decision urgency. This course provides an overview of the current and emerging processes by which communities, businesses, and governments make decisions relating to environmental governance. Spring. Fall.	X	
90. ENST290 Special Topics	ENST	UG	Study of selected topics related to Environmental Studies. May be repeated as topics change. Occasionally.		X
91. ENST301 Environmental Research Methods	ENST	UG	Students explore methods and skills fundamental to understanding environmental issues. Guided field and laboratory projects emphasize the basic tools of science including observation, questioning, data collection and		X

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			interpretation. Students learn basic techniques to survey and describe landscapes, biota, soil, water and air. Fall.		
92. ENST304 Environmental Law and Regulation	ENST	UG	Develops an understanding of the system of laws and regulations that protect the environment, human health, and natural resources. The role of science in the legal/regulatory process will be emphasized, as will federal/state regulatory processes and requirements. Fall.	X	
93. ENST308 Environmental Issue Management	ENST	UG	Environmental professionals frequently confront issues involving high levels of uncertainty in contentious political environments. This course covers the methods for informing the public and engaging stakeholders in addressing environmental problems. Students create and critique environmental messages, public participation strategies, and information dissemination styles for multiple audiences and purposes. Spring.	X	
94. ENST311 Environmental Health	ENST	UG	This course will examine the impact of environmental factors on human health. Basic principles of toxicology will be reviewed. Conceptual understanding of chemical, biological, and physical hazards and their associated health effects will be emphasized. Contemporary challenges of environmental health policy-making will be discussed. Spring, alternate years.	X	
95. ENST312 Energy Resource Science	ENST	UG	Many significant world problems can be attributed to our use of energy. To ensure a livable future, we need to understand energy and be able to effectively evaluate different options, including new energy technologies as well as changes in the way we live our lives. Spring, alternate years.	X	
96. ENST344 Community Solutions to Climate Change	ENST	UG	Increasingly, communities across the world are reaching the conclusion that they need to act on their own to prepare for climate change. We examine what motivates and empowers action and take in-depth looks at case studies of individuals and communities on the front lines of climate adaptation and mitigation. Fall.	X	
97. ENST352 Conservation of Ecological Systems	ENST	UG	This course focuses on the practical and theoretical aspects of conservation and restoration biology through lectures,	X	

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			discussions, and student projects. It examines the degradation and loss of biodiversity and ecosystems due to human activity and considers alternatives for avoiding and/or mitigating these impacts. Spring.		
98. ENST353 Restoration Ecology	ENST	UG	Introduces ecological principles used in restoration and applies those principles to local case studies. By the end of this class, students will be able to: describe the state of this emerging field; describe restoration successes and failures; and provide an ecological analysis of a restoration project. Required field trips. Spring, odd years.	X	
99. ENST371 Environmental Ethics	ENST	UG	This course provides an overview of environmental ethics, exploring the ethical basis of our responsibilities for the natural world in the context of environmental thought. Discussions incorporate contemporary environmental perspectives, including animal rights, eco-feminism, deep ecology and environmental justice; and specific issues: wilderness preservation, species conservation, climate change and sustainability. Spring.	X	
100.INENST381 Farming with Nature in Mind	ENST	UG	Through the lens of agroecology, we consider ecological and social conditions that influence the healthy functioning of food production systems and the effect of varying farming methods on the environment. Students will investigate models from the U.S. and around the world and have opportunities for hands-on experimentation in agroecological methods. Fall.	X	
101.IENST382 Environmental Advocacy	ENST	UG	This course explores how environmental advocates work to implement changes to protect the natural world and the public. Theories of social power and personal empowerment, ethical perspectives, diverse models of mobilization, advocacy roles and tools, and various forms of media will be studied as ways to support an advocacy campaign. Fall.	X	
102.INENST383 Rethinking Energy	ENST	UG	As fossil fuel energy sources have high environmental impact, we need to understand ways that cleaner, renewable alternatives can be more broadly available. This course develops a basic understanding of the physical laws of energy	X	

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			and explores the connections between energy sources, needs, politics, policies, environmental impact, and sustainability.		
103.ENST393 Sustainability for Organizations	ENST	UG	As social animals, humans form collective organizations in order to accomplish their goals. These organizations take many forms in the public/private sector, but they all offer opportunities to engage in sustainable practice. This course explores how to drive sustainability innovation within both new and existing organizations, and associated benefits. Occasional.	X	
104.ENST395 Junior Seminar	ENST	UG	In-depth analysis of environmental research literature and methodologies. Emphasis on proposal writing and oral presentation. Development of a project proposal to be completed in <u>ENST 495</u> . Exploration of postgraduate opportunities. Field trips and field work required. Spring. Fall.		X
105.ENST404 Risk and the Environment	ENST	UG	Risk decision-making regarding the environment involves multiple stakeholders and is often controversial. This course examines the theory and practice of environmental risk assessment and management, with an emphasis on the social, political, and technical dimensions of risk decision-making. Spring, alternate years.	X	
106.ENST411 Pollution Chemistry	ENST	UG	This course examines the chemistry of pollution in the environment. Conceptual understanding of significant natural and manmade chemical processes in air, water, and soil will be emphasized. Pollution fate and transport, monitoring, control technologies, and remediation strategies are explored. Lab component. Spring, alternate years.	X	
107.ENST412 Environmental Geochemistry	ENST	UG	Examination of the principles and mechanisms governing distribution of the chemical elements and their isotopes in natural environments, with application to selected problems and geochemical analysis research projects. Three-hour lecture, three-hour lab. Spring, alternate years.		X
108.ENST431 Environmental Policy Analysis	ENST	UG	This course provides a framework for navigating the complex dimensions of environmental policy and reconciling scientific information with the often divergent social values and	X	

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			perspectives associated with environmental issues. Students examine environmental problems at multiple scales and propose common interest solutions based on an in-depth interdisciplinary case study analysis. Prerequisite: ENST 253. Fall.		
109.ENST452 Ecosystems and the Environment	ENST	UG	This course focuses on the controls and dynamics of ecosystem function and community structure. A central theme in this course is to apply the concepts learned to human-caused environmental problems such as global climate change, industrial farming, loss of biodiversity, invasion by nonnative species, and acid rain. Fall.	X	
110.ENST460 Groundwater in the Environment	ENST	UG	Examines the occurrence and movement of groundwater as it relates to the hydrologic cycle, the environment and ecosystems, water resources, and the transport and fate of contaminants. Theoretical and practical aspects. Three-hour lecture, three-hour lab. Field trips may be required. Fall, alternate years.	X	
111.ENST461 Freshwater Science and Management	ENST	UG	This applied interdisciplinary course examines the physical factors that control freshwater aquatic systems. Principles of hydrology, geomorphology, and aquatic ecology will be discussed and applied to issues of aquatic system management and restoration. Labs include indoor and field skill development.		X
112.ENST481 Future of Energy	ENST	UG	Fossil fuels and climate change are pushing us toward a lower carbon future. We examine the transition underway to renewable energy, conservation, and smart efficiency. We also evaluate the disruptive and positive consequences of the technological, political, economic, and social forces that are driving the changes. Prerequisite: ENST 251, or permission from the instructor. Spring.	X	
113.ENST490 Advanced Special Topics	ENST	UG	Study of selected topics related to environmental studies at an advanced level. May be repeated as topics change. Occasionally.		X

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114.ENST491 Adv Topics in Environmental Science	ENST	UG	Study of selected topics related to environmental science at an advanced level. May be repeated as topics change. Occasionally.		X
115.ENST492 Advanced Topics in Human Dimension	ENST	UG	Study of selected topics related to human dimension of environmental studies at an advanced level. May be repeated as topics change. Occasionally.		X
116.ENST495 Senior Seminar	ENST	UG	In this capstone course, students explore in-depth environmental issues, integrating science and policy aspects. Completing the research project developed in <u>ENST 395</u> , students further enhance their research, critical thinking, and oral and written communication skills. The seminar prepares students for professional careers or postgraduate opportunities. Field trips or field work required. Fall. Spring.		X
117.IHFILM310 Women and Cinema	FILM STUDIES	UG	Presenting the works of women film and video makers in the social, economic, and historical contexts of their production and reception, this course develops a critical understanding of women's concerns in a transnational world. Included in this inventory because of emphasis on gender equality in UN Sustainable Development goals and other frameworks. Spring.	X	
118.FILM353 Cinema and Diversity	FILM	UG	This course invites students to consider films in their social, economic, and historical contexts of production and reception. By surveying key critical ideas, students will recognize political issues in filmic representations and gain an understanding of how power functions in the reproduction of social boundaries and cultural differences through cinema. Included in this inventory because of its emphasis on power and equality and the sustainability challenges of social and economic justice, discrimination, respect for diversity, and other key sustainability challenges identified in the Earth Charter and UNSDGs. Fall.	X	
119.IIFILM380 Filming War, Writing War	FILM	UG	This interdisciplinary course will focus on cinematic and literary works about war's noncombatants, women, children, losers instead of winners, and international populations.	X	



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			Drawing on material from the fields of film, literature and history, we will explore how war is defined and represented around the world. This is an important course for understanding the causes and consequences of violence—a key sustainability challenge in the UNSDGs and Earth Charter.		
120.GS301 The Web of Science	GENERAL SCIENCE	UG	This course provides extensive hands-on experience in a laboratory setting for elementary education majors. Students plan and teach science lessons to elementary children. Lessons include discovery-based and inquiry-based learning. It's an integrated natural science, content-oriented curriculum, based on the Natural Science Standards and New Hampshire Science Curriculum Frameworks.		X
121.ISGEOG100 Introduction to Geography	GEOGRAPHY	UG	A systematic introduction to the discipline, designed to give the beginning student exposure to major topics associated with the subfields of geography. Geographic concepts and theories using real world examples will be presented in order to examine spatial information and patterns that exist on the earth. Fall, Spring.		X
122.ISGEOG101 World Regional Geography	GEOG	UG	Introduction to the geography of the world's peoples and places. Adopting a regional perspective, the course examines the homogenizing and diversifying forces inherent among the world's countries, peoples, and physical environments. Includes resource materials for teaching geography. Fall, Spring.		X
123.ISGEOG201 Geography for Teachers	GEOG	UG	A combination of world regional geography and its application in the K-12 classroom. Course is based on the six elements of geography and the national geography standards. Appropriate for both elementary and secondary preservice teachers. fall.		X
124.ISGEOG203 Globalization Culture & Place	GEOG	UG	This course analyzes multiple facets of contemporary human geography including global patterns of culture, population, economy, environmental change and geopolitics. It also focuses on how cultures change and respond to the pressures of globalization. Fall, Spring.		X

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125.INGEOG204 Earth's Changing Landscapes	GEOG	UG	This course examines the dynamic processes that shape the planet's dramatic landscapes. Topics include external forces such as glaciers, rivers, and oceans, as well as internal forces such as volcanoes and earthquakes, and how these lead to earth's widely varied landforms. Special attention is given to map interpretation. Fall, Spring.		X
126.ISGEOG205 Environmental Geography	GEOG	UG	Explores the complex relationships between nature, culture, and place. Emphasis is placed on spatial aspects of human interactions with the environment resulting in serious issues, including pollution, global climate change, and resource depletion. Environmentally sustainable actions will be examined and assessed. Fall.	X	
127.IIGEOG302 Apocalypse Science and Society	GEOG	UG	This multidisciplinary course examines natural and anthropogenic hazards through perspectives from Environmental Geography, Cultural Studies, Science and Technology Studies, and Earth Science. Students will scientifically investigate dynamic earth processes and how they interact with social factors to create catastrophes. Students will also analyze cultural and political aspects of apocalyptic stories.		X
128.GEOG303 The Politics of Place	GEOG	UG	Provides a systematic introduction to the geographical dimensions of political systems, with emphasis on the physical environment, economic and cultural systems, location, resources, and political patterns. Spring, odd years.	X	
129.GEOG304 Population Matters	GEOG	UG	Global demographic analysis of birth rates, death rates, and migration rates. Provides a spatial, temporal, and structural investigation of the relationship between demographic and cultural, economic, and environmental factors. Spring, odd years.		X
130.GEOG307 Urban Geography	GEOG	UG	Combines attention to urbanism, growth of cities, morphological theories of urbanization, and modern urban problems with theory and methods of land use planning. Emphasis is placed on concepts, principles, and practices of land analysis and evaluation of planning and design. Spring, odd years.		X

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131.GEOG308 Planning for Sustainability	GEOG	UG	This course provides a fundamental analysis of the connection between sustainability and land use planning. The means by which geographers and planners engage in creating more equitably, environmentally, and economically sustainable communities are explored. Focus is on tools planners use to steer communities to a more sustainable and resilient future. Fall, even years.	X	
132.GEOG329 Applications in GIS	GEOG	UG	Students utilize common Geographic Information Systems software to explore specific applications in urban planning, environmental modeling, outdoor recreation and education. Subject matter will build on fundamental GIS skills in vector and raster data analysis and incorporate theoretical contributions in the subject application. Occasionally.		X
133.GEOG330 Natural Resources Management	GEOG	UG	Examination of the use and management of renewable and nonrenewable resources, including patterns of assessment, conservation policies and practices, and human impact on the environment. Resources discussed include land, water, air, forests, wilderness, and recreation from an international perspective. Fall, even years.	X	
134.GEOG332 Global Water Resources	GEOG	UG	Spatial investigation of the social, political, and environmental consequences of water resources development and use. Case studies used to compare hydrologic conditions, social institutions, and hydro-politics in watersheds around the world. Emphasis is on emerging global change (e.g., population and climate). Spring.	X	
135.GEOG334 Outdoor Recreation	GEOG	UG	Examines geographic aspects of outdoor recreation including trends and resources. Emphasis will be placed on the supply and demand for recreation as well as the impacts of recreational use upon supporting environments. Recreation agencies' missions and programs will also be explored. Fall.		X
136.GEOG335 Sustainable Tourism	GEOG	UG	As one of the largest economic activities on Earth, tourism has significant impacts on individual livelihoods as well as on the landscapes of whole cities and regions. Using critical geographic perspectives, this course analyzes the cultural,	X	

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			economic, and environmental impacts of tourism, and discusses theories for developing tourism sustainably.		
137.GEOG340 Topics in Regional Geography	GEOG	UG	A systematic analysis of the physical, social, and economic resources of the region under study. Focuses on historical development, physical and cultural diversity, natural resources, demographic trends, spatial interaction, the environment, and prospects for growth. May be repeated as topics change. Fall, Spring.		X
138.GEOG371 Geography Field Studies	GEOG	UG	Off-campus field study. Themes include aspects of physical and/or cultural Geography depending on the expertise of the instructor and the areas under observation. Course may be repeated for a maximum of 16 credits, only 8 of which are applicable toward the major in Geography. Fall, Spring.		X
139.GEOG571 Geography Field Studies	GEOG	UG	Off-campus field study. Themes include aspects of physical and/or cultural Geography depending on the expertise of the instructor and the areas under observation. A research project is required. Fall, Spring.		X
140.GEOL100 Perspectives of the Earth	GEOLOGY	UG	An overview of earth's systems (geosphere, atmosphere, hydrosphere, and biosphere) and their interactions. Includes a survey of earth materials, internal and external processes, global cycles (carbon, water), and feedback loops between humans' and earth's systems. Environmental and resource issues are addressed. Fall, Spring.		X
141.INGEOL110 Earth Systems Science	GEOL	UG	An overview of earth's systems (geosphere, atmosphere, hydrosphere, and biosphere) and their interactions. Includes a survey of earth materials, internal and external processes, global cycles (carbon, water), and feedback loops between humans and earth's systems. Environmental and resource issues are addressed. Includes an integrated laboratory component. Fall, Spring, Summer.		X
142.INGEOL151 Physical Geology	GEOL	UG	An overview of the earth. Includes description and origin of minerals and rocks, internal and external processes and recognition of the landforms they produce, global cycles (carbon, water), and feedback loops between humans' and earth's systems. Environmental and resource issues are		X

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			addressed. Three-hour lecture, two-hour lab. Required field trips. Fall, Spring.		
143.GEOL206 Oceanography	GEOL	UG	Introduction to ocean science emphasizing waves, tides, coastal marginal processes, marine sediments and resources, the importance of technology in ocean studies, and the origin of the ocean basins through plate tectonics. Some coverage of ocean chemistry and biota. Spring.		X
144.GEOL252 Evolution of the Earth	GEOL	UG	Introduction to Earth history and the processes that have shaped the Earth since its formation. Topics include absolute and relative correlations, plate tectonics, and the origin and evolution of the lithosphere, biosphere, and atmosphere. Three-hour lecture, two-hour lab. Required weekend field trip(s). Spring.		X
145.INGEOL300 Geoscience Issues and Society	GEOL	UG	A course focusing on the cause and effect of geologic processes that impact society. Content may vary, but includes earthquakes, tsunamis, floods, volcanic activity, resource issues, and the geologic record of climate change. Students are expected to closely monitor popular media to document current geologic events and their effects. Occasionally.		X
146.GEOL315 Environmental Geology	GEOL	UG	Examines the relationships between humans and our geological environment, including resources, hazards, and human impacts. Field methods in obtaining geologic information for resource evaluation and protection, risk reduction, and environmental remediation. Three-hour lecture, two-hour lab. Required field trips. Fall, alternate years.	X	
147.INGEOL320 Earth's Climate: Past and Future	GEOL	UG	The tools of climatic science are used to investigate the evidence and mechanisms for earth's climatic change throughout geologic time. Includes climate classification and reasons for climate, climate forcing mechanisms, anthropogenic forcing, the global-warming crisis, and potential remedies. Combined lecture/lab. Occasionally	X	

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148.GEOL412 Environmental Geochemistry	GEOL	UG	Examination of the principles and mechanisms governing distribution of the chemical elements and their isotopes in natural environments, with application to selected problems and geochemical analysis research projects. Three-hour lecture, three-hour lab. Required field trips. Spring, even years.		X
149.GEOL460 Hydrogeology	GEOL	UG	Occurrence and movement of groundwater as it relates to the hydrologic cycle, water resource evaluation (well hydraulics), and transport and fate of contaminants. Theoretical and practical aspects, including computer modeling. Three-hour lecture, two-hour lab. Field trips may be required. Spring, odd years.		X
150.INGEOS201 The Physical Earth	GEOSCIENCE	UG	An overview of earth's physical systems (geosphere, hydrosphere, and atmosphere) and their interactions. Includes a survey of earth materials, the rock cycle, plate tectonics (earthquakes and volcanoes), landscape development (glaciers and rivers), the water cycle, weather, climate, and map interpretation. Three-hour lecture, two-hour lab, required field trips. Fall, spring.		X
151.INGEOS202 Earth: 4.5 BYA to Present	GEO	UG	Introduction to Earth history and the processes that have shaped the Earth since its formation, 4.5 Billion years ago. Topics include absolute and relative correlations, plate tectonics, and the origin and evolution of the lithosphere, biosphere, and atmosphere. Three-hour lecture, two-hour lab. Required field trip(s). Spring.		X
152.INGEOS300 Geoscience Issues and Society	GEO	UG	A course focusing on the cause and effect of geologic processes that impact society. Content may vary, but includes earthquakes, tsunamis, floods, volcanic activity, resource issues, and the geologic record of climate change. Students are expected to closely monitor popular media to document current geologic events and their effects. Fall, even years.		X
153.IHHIST161 American Perspectives to 1877	HIST	UG	In this course, students will be exposed to a variety of American perspectives through time. Emphasis will be placed on the voices of the traditionally unheard such as the poor,	X	

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			women, African Americans, and American Indians. Issues of class, race, and gender will be explored from a comparative approach.		
154.IHHIST162 American Perspectives From 1877	HIST	UG	In this course, students will be exposed to a variety of American perspectives through time. Emphasis will be placed on the voices of the traditionally unheard such as the working poor, women, African Americans, and Native Americans. Issues of class, race, and gender will be explored from a comparative approach. Fall, Spring.	X	
155.IHHIST222 Marriage and Family in Western Civilization: The Ancient West	HIST	UG	The class examines the institutions of marriage and family in the ancient civilizations of Mesopotamia, Egypt, the Israelites, Greece, and Rome. By studying the development of the family, this course offers an examination of the roles of both men and women in the development of the western culture and civilization. Included in inventory because it addresses sustainability challenge of gender equality. Fall.		X
156.IHHIST331 Sex and Sanctity in Medieval Europe	HIST	UG	This class examines the medieval construct of gender and sexuality to understand gendered meanings of sanctity and sin, questioning the ways that sanctity influenced medieval gender, creating a complex and fluid category of identification beyond a binary system and allowing for actions and activities that appear to be “gender bending.” Included in inventory because it addresses sustainability challenges of gender equality, justice, and inclusion.		X
157.IHHIST338 A History of Sexuality	HIST	UG	This course examines theories and historiography of pre-modern sexualities. By focusing on the history of ancient and medieval ideologies and hierarchies of sexual behavior, this class seeks to understand the cultural constructs of sexuality and gender in various eras and civilizations and questions the idea of a trans-historical heteronormativity. Included in inventory because it addresses sustainability challenges of gender equality, justice, and inclusion.		X
158.HIST339 The Age of Enlightenment	HIST	UG	This course will explore central themes of the period in European history known as the Enlightenment (1650-1800), such as race, gender, religious tolerance, materialism, and		X

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			political engagement. Students will explore these themes in writing assignments and class presentations based on close readings of primary and secondary sources. Included in inventory because of important historical context for the roots of un-sustainability. Occasionally.		
159.HIST360 Natives and Newcomers in North America 1500-1766	HIST	UG	Examines the experiences of native peoples of North America in the era of European invasion and imperialism from the pre-contact period through the development of Pan-Indian identity in Pontiac's War. Major themes include power relations, environmental impacts, gender, changes over time, responses to imperialism, and the persistence of native cultures.	X	
160.HIST362 American Slavery/American Capitalism 1787-1848	HIST	UG	Examines political, social, economic, and cultural developments as well as changes in material culture from the establishment of the federal government to the Compromise of 1850. Fall.		X
161.HIST367 Modern America: 1950-Present	HIST	UG	Describes United States in the modern age of Cold War and fears of domestic subversion, domestic reform upheavals of blacks, students, women in 1960s and 1970s; major changes for economy and labor. Spring.		X
162.IHHIST371 Africans in the Colonial Atlantic World	HIST	UG	Focuses on the experiences of Africans and African Americans in the Atlantic World during the era of early modern European empires, ca. 1500-1830. The course will examine transatlantic cultural connections between Africa, Europe and the Americas. Course topical focus will vary between North America/West Indies and Latin America.		X
163.IHHIST372 Gender and Power in Early North America 1600-1800	HIST	UG	The course analyzes early American gender roles as culturally constructed and contested among European Americans, Native Americans, and African Americans. Explores how gender ideologies and their attendant power relations ordered social, familial, sexual, religious, and political life in colonial and early postcolonial North America.	X	



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164.HIST373 Race, Disability, and Eugenics	HIST	UG	An examination of the history of the 19th- and 20th-century eugenics movement in the United States and Europe. Efforts to "improve" humanity by selectively controlling or eliminating individuals deemed socially undesirable because of race or disability will be investigated by exploring science, legislation, and popular culture. Fall, odd years.		X
165.IHHIST375 War and Culture in Early America 1600-1865	HIST	UG	Cultural history of war, peace, and the military in North America and the United States from the pre-colonial period to the end of the Civil War. Examines military history through categories of class, race, region, ethnicity, and gender. Analyzes warfare as cultural exchange and surveys American ideologies of war. Fall.		X
166.IHHIST376 Modern United States Military History 1865-Present	HIST	UG	A social and cultural history of the United States military from the end of the American Civil War to the present. The class examines the development of American military strategies and institutions. Analyzes to what extent the military reflected social norms regarding race, class, sexuality, gender, and ethnicity over time.		X
167.IHHIST377 Sports and American History	HIST	UG	An examination of sports as an expression of the social and cultural history of the United States. Among the topics are changing attitudes toward the human body and fitness, the opportunities afforded by sports for marginalized groups to promote social change, and the commercialization of sports.		X
168.IIHGS181 Crisis and Conflict in Africa	HOLOCAUST AND GENOCIDE STUDIES	UG	Explores issues related to war, genocide, and human rights in Africa. Examines colonial histories, regional geopolitics, and African dictators that have contributed to the continent's turbulence, as well as African strategies for peace. Case studies may include the Herero Genocide, the Belgium Congo, Rwanda, and Apartheid South Africa. Fall	X	
169.IHHGS189 Judaism, Christianity, Islam	HGS	UG	An introduction to the core beliefs, traditions, and world views of the three Abrahamic religions: Judaism, Christianity, Islam. Included in inventory because it provides essential foundational understanding of religious attitudes to the earth, stewardship, women, and other aspects of sustainability.		X

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170.IHHGS232 Introduction to Judaism	HGS	UG	An exploration of Jewish rituals and traditions, including in-depth examination of holidays and life-cycle events utilizing historical and contemporary religious and descriptive texts. Examined will be basic theological principles of Judaism, historical and contemporary diversity within Jewish religious practice, and belief and culture. Included in inventory because it provides essential foundational understanding of religious attitudes to the earth, stewardship, women, and other aspects of sustainability. Fall.		X
171.IIHGS254 Women in the Holocaust	HGS	UG	How did women's Holocaust experiences differ from those of men? An interdisciplinary exploration of gender in Central European families, ghettos, camps, and resistance, this course examines connections between the Holocaust and present-day manifestations of anti-Semitism, sexism, homophobia, and nationalism. Readings are drawn from history, women's studies, and Holocaust memoirs. Included in the inventory because of its focus on the sustainability challenges of gender equality and violence against women. Occasionally.		X
172.IIHGS281 Peace Studies	HGS	UG	Interdisciplinary introduction to a growing field that examines competing explanations for why violence, terrorism, war, and genocide occur. Explores the methods and frameworks that scholars, policy makers, peace activists, and practitioners employ in dealing with physical and structural violence. Topics may include non-violent resistance, inner-city violence, conflict transformation, and mediation. Included in the inventory because this course clearly focuses on the sustainability challenge of peace and nonviolence, stated priorities in the UNSDGs and Earth Charter. Fall.	X	
173.HGS313 Philosophy and the Holocaust	HGS	UG	This course examines ethical, philosophical, and theological issues relating to the experience of the Holocaust and the broader human concerns of evil and suffering. Topics include the uniqueness and universality of the Holocaust as well as questions of justice. Fall.		X

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174.HGS374 Comparative Genocide	HGS	UG	An analysis of comparative genocide studies, with a particular focus on placing genocide within the broader category of mass atrocity crimes. Students critically analyze contested cases of genocide in the twentieth century. Course is structured around the responsibilities to prevent, react to, and rebuild after genocide and mass atrocity. Spring.	X	
175.IHHGS381 Human Trafficking Across the Globe	HGS	UG	An investigation into the global problem of human trafficking, beginning with ancient societies and ending with contemporary forms of trafficking and slavery. Explores the roles of war, genocide, colonialism, and globalization in allowing human trafficking to flourish and analyzes why and how it persists today. Spring.	X	
176.HGS382 Transitional Justice	HGS	UG	Investigates the possibilities and limitations of justice and reconciliation in societies emerging from a recent history of genocide, mass violence, and political repression. Explores the uses of truth commissions and trials in transitional societies, as well as the roles of civil society, political elites, and international actors. Spring.	X	
177.HGS427 Rwandan Society and Genocide	HGS	UG	This course involves intensive sociological study of Rwandan society, with a particular focus on its 1994 genocide. Topics include historical, social, and cultural background; assessment of theoretical explanations for the genocide; the extent of international intervention to stop it; and post-genocide social institutions and culture. Spring, even years.	X	
178.IIHP311 Outdoor Recreational Leadership	HP	UG	This interdisciplinary course will explore outdoor recreational leadership qualities, styles, and group dynamics from multiple perspectives (physical education/communication). Additional focus is placed on experiential learning and examinations of selected program activities. Students develop, lead, and evaluate activities based on varying participant requirements, and earn a Leave No Trace certification. Summer.	X	
179.IIINFO320 Participatory Cultures	INFORMATION STUDIES	UG	How do we engage in information creation in ethical ways? How do online groups help produce information? This interdisciplinary course draws from information science,		X

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			communication, and education, allowing students to produce digital content as a means of self-discovery, self-expression, and community engagement while considering the ethics of knowledge creation. Included in this inventory because of the emphasis on ethics, education, and open exchange of information. Spring.		
180.II322 Neuropsychology of Meditation	INTEGRATIVE STUDIES	UG	This interdisciplinary course draws from neuroscience (which includes biochemistry and physiology) and Buddhist psychology (which also involves philosophy) to understand the practice of mediation and its benefits. Students will learn a variety of meditative practices and explore research on the neural bases and Buddhist psychological theory underlying this practice. Included in inventory because of its inclusion of Buddhist teachings, which address aspects of sustainability (e.g., Right Livelihood) and the importance of mindfulness in cultivating sustainable behavior. Spring.		X
181.II330 Toward A Just and Equitable World	INT	UG	We live in an unjust world. What can citizens do? What is the role of the media and formal/nonformal education? Is change possible? This interdisciplinary course uses tools from sociology and education in analyzing the systemic nature of social justice and equity issues. Includes involvement in a social change project.	X	
182.IHJRN101 Media and Society	JOURNALISM, MULTIMEDIA, PUBLIC RELATIONS	UG	This course will examine the ways that the media participates in shaping social reality. Students will analyze and interpret the roles of the media, especially the news media, in a democratic society in regard to a variety of cultural, political, environmental, and economic problems. Fall, Spring.		X
183.IHJRN267 Issues in the Media	JRN	UG	This course will examine the way the mass media shapes public perception of a contemporary societal issue, such as climate change, social justice, and race. Students will analyze and interpret the roles of the media in a democratic society and how media can sometimes change human understanding and behavior in regard to this issue. May be repeated for credit as "issues" change. Occasionally.		X

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184.IIJRN268 Environmental Issues and the Media	JRN	UG	Media coverage of environmental issues is analyzed from scientific, economic, political and legal perspectives. For both science and non-science majors, a clearer understanding of how the media covers the environment and the various institutional interests involved in that coverage results through critical analysis and research projects. Spring, even years.	X	
185.IAMU115 Women in Music	MU	UG	The study of recurring issues concerning women composers, teachers, performers, and patrons, in both historical and contemporary cultures. Included in the inventory because of its relevance to UNSDG and Earth Charter emphasis on gender equality. Spring.		X
186.IAMU216 History of Rock and Roll	MU	UG	Study of the growth and diffusion of popular music and its surrounding culture in the '50s and '60s, including concurrent historical events and movements as well as trends in other arts. Music represents one way of communicating the critical social and environmental issues of the time, such as women's rights, gender equality, civil rights, social and economic justice and other sustainability challenges. Fall, Spring.		X
187.IAMU330 Music of Africa & the Diaspora	MU	UG	Connecting the music of Africa and the Americans, this course looks at traditional African music; contemporary African popular styles such as soukous, highlife, afrobeat, and mbaqanga; music from Cuba, Haiti, Brazil, Martinique; and African American styles from early folk music to gospel, blues, R&B and funk. Included in the inventory because music is an important way of communicating and experience the sustainability challenges of discrimination, violence, inequality, oppression, and other forms of injustice perpetuated on a culture; critical aspect of the civil rights movement.		X
188.NURS312 Health Promotion & Assessment	NURSING	UG	Examine models of health in wellness promotion and illness prevention across the lifespan. Emphasis on the individual in context of family and environment. Focus on appraisal of risk and evidence-based reduction of risk. Students attain		X

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			mastery of fundamental and advanced health assessment skills for diverse groups in the Simulation Lab. Summer.		
189.NURS401 Community Health Nursing	NURS	UG	This course promotes integration of patient-centered care and evidence-based practice assisting the student to provide nursing care to population aggregates and function effectively within nursing and interdisciplinary teams, fostering open communication, mutual respect, shared decision-making, team learning and development. This course prepares nurses for the practice of population-based care. Students examine the historic, contemporary and futuristic perspectives of the development of community and public health nursing as well as its principles and theories building on the social sciences and epidemiology.		X
190.PHIL231 Comparative Religion	PHILOSOPHY	UG	A philosophical introduction to many of the world's religions, including Buddhism, Christianity, Confucianism, Hinduism, Islam, Judaism, and Taoism. Investigates the differing aspects of human religious experience and examines the similarities and differences both between religions and among the denominations within them. This course is included in the inventory because of the importance of understanding the religious underpinnings of sustainability and people's behavior. It references the important religion and ecology movement.		X
191.PHIL250 Sex, Gender, Justice	PHIL	UG	Feminism is concerned with securing women's rights and gender justice. But what is gender? What is gender justice? And what are women's rights? This course explores feminist theory from a philosophical and historical perspective. Topics include: the sex/gender distinction, gendered knowledge, and the possibility of choice under oppression. Spring.	X	
192.PHIL340 Politics of Multiculturalism	PHIL	UG	Citizens in contemporary democracies have a wide variety of different religious and cultural beliefs. Should we tolerate these beliefs? What if the beliefs are undemocratic? We will examine different philosophical approaches to these questions in order to understand the complicated relationship between democracy and multiculturalism. Fall.		X

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193.IIPHYS210 History of Science	PHYSICS		The history and philosophy of science (astronomy, chemistry, geology, physics, and evolution) from its origins in Ancient Greece through Rome, the Middle Ages, the Islamic period, and the Renaissance to the Scientific Revolution of the 17 <sup>th</sup> century to modern times, including plate tectonics, relativity, quantum physics and cosmology. Included in course inventory because of the essential need for understanding scientific principles, especially emerging concepts from quantum physics and cosmology, in understanding interdependence and other fundamental sustainability principles. Fall.		X
194.POSC310 Political Participation	POSC	UG	An examination of American elections and voting, assessing the quality of modern democracy. Polling and prediction, historic turnout and choice patterns among population groups, political information, campaign tactics and money. Also, discussion of sufficiency of voting to functional democracy. Having a political voice and learning how to effectively use it is essential understanding for sustainability and climate action. Fall, even years.		X
195.POSC315 Environmental Policy	POSC	UG	Critical discussion of specific environmental policies broken into two categories: policies dealing with pollution and public health and policies dealing with land management and the public realm. Includes a brief history and discussion of policy theory applied to the environment. Prerequisite: <a href="#">ISPOSC 210</a> or permission of instructor. Spring, odd years.	X	
196.POSC322 Global Political Economy	POSC	UG	Investigation of the interrelationships between political and economic interests, institutions and processes that form an international monetary regime, and the political resources determining the relative power of global actors to affect the allocation of scarce resources on the planet. Fall, even years.		X
197.PSYC221 Social Psychology	PSYCHOLOGY	UG	Human thought, feeling, and behavior in the social environment. Topics include the perception of people and social situations, aggression and altruism, competition and cooperation, love and friendship, communication and		X

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			persuasion, attitudes and attitude change, social influence, and group dynamics. Fall, Spring.		
198.ISPSYC312 Lifespan Psychology	PSYC	UG	This course investigates the major psychological theories of lifespan development and provides a multifaceted introduction to the dynamics of intrapsychic development that occurs across the human lifespan. Major developmental milestones, effects of diversity and multiculturalism, socioeconomic status, family constellation, and socio-cultural variables are essential components of this analysis. Attitudes toward sustainability and concern for the environment and social justice also change over the lifespan. Fall, Spring		X
199.PSYC314 Adulthood and Aging	PSYC	UG	A psychological analysis of human development from post-adolescence to death. Topics include sexuality, self-image, family and work relationships, independence, power, developmental experiences, multicultural issues, emotional and physical health, and aging. Understanding human development is essential for developing effective sustainability and climate action strategies appropriate for each age and stage of living. Many environmental thought leaders suggest that ineffective maturation into adulthood affects sustainable behavior. Spring.		X
200.PSYC321 Culture and Psychology	PSYC	UG	The study of issues at the intersection of culture and psychology. Topics may include the learning of culture, the impact of culture on behavior, conflict and cooperation across cultural boundaries, and social processes in multicultural communities. Fall.		X
201.IIPSYC350 When Harm Is Done	PSYC	UG	An interdisciplinary exploration of restorative justice, difficult dialogue, nonviolent resistance, and other models that differ from revenge and punishment as responses to crime and injustice. We will examine applications at the national and international level, in community criminal justice systems, in schools, in groups, and in personal relationships. Fall.		X
202.PSYC425 Psychology of Women	PSYC	UG	Exploration of current and historical understandings of the psychology of women. Includes psychoanalytic, biological, and social explanations of women's psychology and		X



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			development and critical examination of research on gender differences and similarities. Fall.		
203.HLSC101 Health and Wellness	PUBLIC HEALTH	UG	An overview using a balanced, integrated, holistic model of health and an exploration of the dimensions of wellness. Focus on self-assessment, development of critical thinking, and behavior change skills to facilitate personal awareness and well-being. Fall, Spring.		X
204.INPH175 Essentials of Nutrition Science	PH	UG	An introduction to basic nutrition science concepts including nutrition guidelines, micro and macronutrients, anatomy and physiology of digestion and absorption of nutrients, energy balance, and health and wellness. The course will integrate course content, technology and quantitative reasoning using hands-on investigative activities to interpret and evaluate nutritional needs. Fall, Spring.		X
205.PH216 Food Culture and Community Nutrition	PH	UG	An introduction to community nutrition including policy, food security, and the effects of economics and culture related to food choice. Analysis of community food and nutrition programs. Overview of beliefs, customs and food practices of various cultural groups. Fall, Spring.	X	
206.ISHLSC285 Health in Society	PH	UG	An introduction to the social determinants that impact health, such as socioeconomic status, education, culture, and health policy. Topics of social justice and ethics will be explored. Fall, Spring.		X
207.HLSC305 Epidemiology	PH	UG	An introduction to the basic principles and methods of epidemiology and their applicability in the field of Health Science. Students will examine factors governing health and disease in populations. Skills will be introduced to critically interpret the epidemiologic literature relevant to health professionals. Included in the inventory because of its relevance to the UNSDG of Good Health. Spring.		X
208.PH318 Nutrition Throughout the Lifespan	PH	UG	Throughout the Lifespan Comprehensive examination of nutritional requirements, physiological demands, and health concerns from preconception through late adulthood. Challenges posed by physical and psychological growth, development, and lifelong wellness are discussed. Nutrition		X

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			assessment, intervention, and evaluation of individuals, groups, and communities are addressed. Integrated application of skills through community-based observations. Fall, Spring.		
209.PH325 Public Health	PH	UG	Utilize community-based models and theories to identify strengths and problems to mobilize resources and achieve health goals. Public health, health communication, field work tools, coalition building, cross-cultural competency skills, and evaluation of community organizing processes are explored using an interdisciplinary approach. Fall.		X
210.HLSC 330 Health Psychology	PH	UG	A biopsychosocial examination of the factors underlying health and disease. Students explore these factors in relation to health promotion, health compromising and enhancing behaviors, stress management, coping strategies, use of health services, addictive behaviors, pain management, and coping with disease		X
211.IIHLSC350 Women and Health: Witches, Harlots, and Healers	PH	UG	A survey of women's health from the biological, social, economic, and political perspectives, drawing from the interdisciplinary field of public health.	X	
212.HLSC385 Behavior Change	PH	UG	Expands on knowledge and skills of the behavioral change process. Students analyze and apply behavior or education theories appropriate for diverse population groups. Interviewing, assessment, and motivation skills are enhanced. Students develop and implement a behavioral change-based project for a community audience. Behavior change is an essential skill for sustainability professionals. Fall, Spring.		X
213.PH431 Stress Management	PH	UG	Examination of the nature of stress from biopsychosocial perspectives. A variety of stress-management practices are explored, including coping strategies and relaxation techniques. Included in the inventory because stress is one of the critical factors that undermines good health; addresses UNSDG 3, Good Health. Spring.		X
214.IIPH445 Human Sexuality	PH	UG	An interdisciplinary examination of human sexual development and behavior, including reproduction, sexual		X

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			anatomy, psychosexual development, sexual socialization, values, and various forms of sexual expression. This course will explore human sexuality from biological, cultural, legal, and political perspectives. Summer.		
215.HLSC485 Health Promotion Practice	PH	UG	Development of planning, implementation, evaluation, and management skills to effectively deliver health promotion programming. Application of theory to practice, including community-based assessment, risk management, financial planning, quality assurance, marketing, and personnel management. This course is very relevant to delivering wellness and sustainability programming. Fall, Spring.		X
216.PH601 Food Systems and Sustainability	PH	UG	This course examines emerging food systems trends and issues, considers sustainable food system attributes and explores how food production, principles and practices impact the environment, nutritional status, health and the human condition at the local, state and global levels. Students must be enrolled in the Master of Science in Public Health Nutrition Program. Summer.	X	
217.PH602 Food and Nutrition Policy	PH	UG	This course provides an in-depth review of the public policy process and the development of health policy in the United States. Students will develop professional skills in management of nutrition programs including legislative advocacy and analysis of current nutrition programs at local, state and federal levels. Students must be enrolled in the Master of Science in Public Health Nutrition Program. Summer.		X
218.PH608 International Health	PH	UG	An examination of global health issues focusing on priority setting and community participation in health development, infectious and chronic diseases, maternal/child health, immigrant and refugee health, the relationship between political and cultural processes and health, and factors contributing to disparate health outcomes in population groups. Students must be enrolled in the Master of Science in Public Health Nutrition Program to register for this course. Online. Summer.		X

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219.INSAFE103 Safety Chemistry	SAFETY AND OCCUPATIONAL HEALTH APPLIED SCIENCES	UG	Lecture-lab survey course of introductory chemistry principles applied for professionals in, but not limited to, the safety field. Topics covered span from a basic understanding of matter to the properties of gases and chemical effects on biological and environmental processes. Fall, Spring.		X
220.SAFE202 Occupational Safety	SAFE	UG	The application of scientific and engineering principles to the analysis of processes, equipment, products, facilities and environments in order to optimize safety and health effectiveness. Topics include legislative overview, problem identification, control concepts, and basic engineering principles, including a review of basic geometry and mathematical calculations and conversion factors. Fall, Spring.		X
221.SAFE203 Fire and HAZMAT Response	SAFE	UG	An overview of the National Fire Protection Association Codes that apply to occupational exposures. The safe handling, storage, and use of hazardous materials for industrial, commercial, transportation, and public service operations are covered in detail. Fire and accident prevention measures, training, regulatory requirements, emergency procedures and response are studied. Prerequisites: Safety Studies majors or minors only, or permission of instructor. Fall, Spring.		X
222.SAFE204 Human Factors in Safety	SAFE	UG	This course will provide students with the understanding of the importance of ergonomic design and evaluation of workplaces and the work environment to enable the student to understand physiological and psychological stresses, human capabilities and limitations, and their importance in designing work spaces, processes, tools, equipment, and products. Prerequisites: Safety Studies majors or minors and SPDI Majors only, or permission of instructor. Fall, Spring.		X
223.SAFE206 Construction Safety Standards	SAFE	UG	Compliance with OSHA standards specific to construction, including rights and responsibilities under OSHA, inspections, citations, appeals, and record keeping. The course will also cover the most frequently referenced OSHA, NFPA, ACGIH,		X

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			CGA, NIOSH, ANSI, and ASTM standards in the construction industry. Fall, Spring.		
224.SAFE207 Human Factors in Construction	SAFE	UG	This course will provide students with the understanding of the importance of ergonomic design and evaluation of workplaces and the work environment. This enables the student to understand physiological and psychological stresses, human capabilities and limitations, and their importance in designing work spaces, processes, tools, equipment, and products. Fall.		X
225.INSAFE213 Safety Chemistry	SAFE	UG	Lecture-lab survey course of introductory chemistry principles applied for professionals in, but not limited to, the safety field. Topics covered span from a basic understanding of matter to the properties of gases and chemical effects on biological and environmental processes. Knowledge of basic algebra is mandatory. Fall, Spring.		X
226.SAFE215 Human Factors in Safety	SAFE	UG	This course will provide students with the understanding of the importance of ergonomic design and evaluation of workplaces and the work environment to enable the student to understand physiological and psychological stresses, human capabilities and limitations, and their importance in designing work spaces, processes, tools, equipment, and products. Fall, Spring.		X
227.SAFE301 Risk Management	SAFE	UG	Introduces key Risk Management and Loss Prevention principles through exploration of allied consensus standards including OSHA's Voluntary Protection Program, OHSAS 18001 Safety Management System, LEAN Management and Environmental Management Systems ISO 14001. Fall, Spring.		X
228.SAFE302 Law and Ethics in Safety	SAFE	UG	Introduction to federal and state regulatory authorities governing safety in industry and the environmental impacts of industrial activity. Discusses ethical dilemmas, management challenges, professional responsibilities, and liability and legal ramifications of accidents. Fall, Spring.	X	
229.SAFE305 Health Hazard Identification	SAFE	UG	Reviews health hazards in industry and their effects on humans. Study of hazards involved with chemical, physical		X

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			and biological stressors at work. Explores methods of hazard identification recognition and control. Fall, Spring.		
230.SAFE307 Safety Management Systems	SAFE	UG	Examination of principles underlying management of organizational activities in accordance with occupational health and safety systems. Emphasizes ANSI Z10 standard. Explores ethical leadership, psychology, training, communication, metrics, human resources, cost benefit analysis, and project management. (Membership in the American Society of Safety Engineers required.)		X
231.SAFE401 Industrial Hygiene	SAFE	UG	Familiarizes students with the various techniques and procedures involved in the practice of the profession of Industrial Hygiene. Course work and laboratory exercises illustrate the equipment and methodologies commonly used by Industrial Hygienists in the anticipation, recognition, evaluation and control of occupational health hazards in today's workplace. Fall, Spring.	X	
232.SAFE402 Critical Incident Response	SAFE	UG	The emergency planning process includes planning, preparing, responding and recovering from an emergency. This course will introduce the key activities in the emergency planning process such as; vulnerability analysis, incident command, and asset protection. Relevant to planning and responding to environmental and climate emergencies. Fall, Spring.		X
233.SAFE403 Construction Industrial Hygiene	SAFE	UG	Familiarizes students with the various techniques and procedures involved in the practice of the profession of industrial hygiene as related to the construction environment. Laboratory exercises will illustrate the equipment and methodologies commonly used by industrial hygienists in the recognition and control of occupational health hazards in today's construction work site. Spring	X	
234.SAFE411 Physical Health Hazards	SAFE	UG	This course builds on SAFE 305 and SAFE 401 by focusing on physical health hazards in the workplace (i.e. noise, heat & cold stress as well as ionizing and non-ionizing radiation). Course and laboratory work illustrate the equipment and		X

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			methodologies used in the evaluation and control of these health hazards.		
235.SAFE497 Innovative Safety Leadership	SAFE	UG	Instructional and administrative aspects of comprehensive safety programs. Analysis of personal and environmental safety factors in real world application-based settings. Emphasizes the application of classroom and field experiences accumulated during completion of prerequisite course work. Prerequisites: 104 credit hours earned, and signature of department chair. Fall, Spring.		X
236.ISSOC125 Introduction to Sociology	SOCIOLOGY	UG	Introduces basic concepts, theories, and methods of sociology. Develops a sociological perspective on social issues, problems and events. Provides an overview of major sub-fields in sociology. Also prepares students for the major and a career in sociology and related professions. Included in inventory because course addresses broad range of social issues including social and economic justice, sustainability, and health. Fall, Spring.		X
237.SOC201 Introduction to Sociology Major	SOC	UG	Introduces basic concepts, theories, and methods of sociology. Develops a sociological perspective on social issues, problems, and events. Provides an overview of major subfields in sociology. Included in inventory because course addresses broad range of social issues including social and economic justice, sustainability, and health. Fall, Spring.		X
238.SOC210 Sociology of Consumption	SOC	UG	This course analyses the complex role that consumption plays in the construction of identity and the commodification of culture and experience in a consumer society. Special attention will be paid to the issues of structure and agency; social class, gender, nature, and space. Spring, even years.	X	
239.SOC270 Urban Society	SOC	UG	Analysis of urban structure and ecology. Emphasis is on personality and socialization patterns in large urban communities and consideration of the problems that stem from increasing urbanization in American society and across the globe. Occasionally.		X
240.SOC275 Deviance and Social Control	SOC	UG	This course studies how a society defines "normal" and "deviant" behavior. The social institutions and processes		X

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			related to this act of labeling, as well as those concerned with controlling such behavior, are critically analyzed through a survey of the sociological literature on deviance. Fall.		
241.ISSOC310 Social Problems	SOC	UG	A study of selected social problems using a sociological lens. Problems may include alcoholism and drug addiction, crime, divorce, poverty, gender inequality, race relations, and others. Fall, Spring		X
242.SOC320 Women, Gender, and Society	SOC	UG	A sociological, global, and theoretical approach to the study of women and gender. Emphasis on the social construction of sex and gender. Also analyzes gender inequality and its connections with different forms of oppression over time. Occasionally.		X
243.SOC325 Ethnic Relations	SOC	UG	This course applies sociological theories of ethnicity to the study of past and current ethnic relations across the globe. Emphasizes sociological research on status of ethnic groups in the broader society and in specific social institutions. Prerequisite: <u>SOC 201</u> or permission of instructor. Fall, even years.		X
244.SOC326 Sociology of the Holocaust	SOC	UG	Analyzes the Holocaust from a comparative, sociological perspective, applying relevant theories and concepts. Emphasis is on social and cultural forces that led to the Holocaust, including stereotyping, discrimination, anti-Semitism, institutional changes, and social-political indifference. Fall, odd years.		X
245.SOC327 Sociology of Genocide	SOC	UG	Focusing on genocide after the Holocaust, this course evaluates theoretical debates on what constitutes genocide and why genocide takes place. It also comparatively analyzes genocide that has occurred in different nation-states from a sociological perspective. Spring, even years.	X	
246.SOC328 Social Policy	SOC	UG	In this course students will use a comparative and historical approach to study social policy. Students will learn about how US social policies have evolved over time, analyze theoretical debates related to citizen rights and access to government services, and compare policies in the US to those in other countries. Fall, even years.		X



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247.IISOC330 Person and Society	SOC	UG	Sociological social psychology lies at the intersection of our inner lives and our social worlds. In this interdisciplinary course, we explore socialization, self-presentation, attitudes and behavior, interpersonal relationships, deviance, conformity, and other topics through sources from sociology, women's and gender studies, psychology, communications, and popular culture. Spring.		X
248.SOC350 Sociology of Globalization	SOC	UG	Examines major sociological trends relating to globalization, giving special attention to topics such as development theory, consumerism, opposing viewpoints on the benefits of globalization, and consequences of globalization for economics, culture, technology, politics, and other institutions. Fall, odd years.	X	
249.ISSOC357 Global Ethnic Relations	SOC	UG	This course applies sociological theories and methods to the study of ethnic relations, conflict, and peacebuilding efforts across the globe. Students also study social problems related to ethnic relations from multiple perspectives and evaluate policies to address them. Fall, even years.		X
250.IISOC360 Nicaragua in Change	SOC	UG	Experiential service-learning course examines the effects of revolution and social change in Nicaraguan society. Faculty and students travel during spring break to the city of Managua and a rural farming cooperative in Nicaragua. Students conduct interdisciplinary research on public health and social conditions and share results in a public forum. Occasionally.		X
251.SOC370 Homeless in NH & US	SOC	UG	In this service-learning course, students study homelessness, while developing research and professional skills. After hearing from experts and reviewing scholarship on homelessness, students work on a statewide needs assessment, interview shelter residents, craft a grant proposal, volunteer at a shelter, and engage in education and advocacy for the homeless. Spring.		X
252.SOC380 Environmental Sociology	SOC	UG	Introduces students to the sociological analysis of human systems as they relate to the natural environment around the world. Topics include population, food energy,	X	

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			sustainable development, environmental justice, the environmental movement, international environmental conflicts, and globalization. Fall, even years.		
253.SOC433 Social Movements	SOC	UG	This seminar focuses on the key theoretical paradigms used in social movement studies. These paradigms will be examined with an emphasis on movements in the areas of democratization, civil rights, migration, labor, women, the environment, and globalization. Occasionally.		X
254.SOC455 The Body and Sexuality in Society	SOC	UG	Seminar introduces students to social benefits and practices related to the human body with a focus on gender and sexuality. Topics include socialization, cultural constructions of masculinity and femininity, body image, aging bodies, sexual harassment, rape, pornography and sex work, and new reproductive technologies. Occasionally.		X
255.SOC472 Sociology of Health and Medicine	SOC	UG	Seminar examining the contributions of sociological theory and research to understanding the social effects on health, illness, health care, the institution of medicine, and health policy. While the United States is a primary focus, global issues are included. Occasionally.		X
256.SOC475 Social Stratification	SOC	UG	This seminar examines how the unequal distribution of wealth, power, and prestige among individuals and groups affects life chances. Emphasizes class, race, gender, and occupational divisions in the contemporary United States with some attention to global inequality. Occasionally.		X
257.SOC480 Political Sociology	SOC	UG	Seminar acquaints students with sociological approaches to the study of politics in world context. Attention is given to aspects of political culture, political theory, the media, international politics, political participation, social movements, political economy, and globalization. Occasionally.		X
258.SOC485 Science and Society	SOC	UG	This is a seminar course on the relationship between science and society. We will look at the historical development of science as a social institution and the institutional practices of modern science. We will also study the relations between		X

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			science and other social institutions, including politics, culture, and the economy. Occasionally.		
259.SP201 Spanish and Social Change	SPANISH	UG	Students will enhance their Spanish language skills (speaking, listening, reading, and writing) while gaining a deeper awareness of contemporary issues and social change in the Spanish-speaking world. Included in the inventory because course offers an innovative approach to building cultural competency, which is a key factor in building tolerance, and reducing discrimination—key sustainability challenges of social and economic justice, UNSDGs and Earth Charter priorities. Fall, Spring.		X
260.SP316 Latin American Cultures	SP	UG	Students will investigate Latin American cultures while reviewing all language skills (speaking, listening, reading, and writing). Activities focus on the expansion of cultural knowledge, vocabulary and the development of composition and oral communication skills. Texts and films in Spanish expose students to ideas that challenge stereotypes about Latin America. Included in the inventory because course offers an innovative approach to building cultural competency, which is a key factor in building tolerance, and reducing discrimination—key sustainability challenges of social and economic justice, UNSDGs and Earth Charter priorities. Fall, Spring. Fall, Spring.		X
261.IITDS150 Technology and Civilization	SUSTAINABLE PRODUCT DESIGN AND INNOVATION	UG	This course is a multidisciplinary exploration of technology that encourages students to assess the intended and unintended consequences of technical solutions through cultural, scientific, technological, economic, social, environmental and political lenses. Students will research self-selected topics to understand current issues and to select socially responsible solutions. Four-hour seminar. Spring.		X
262.IISPDI151 Product Design Principles	SPDI	UG	Human-Centered Design: Product Design involves the interdisciplinary integration of human, ergonomic and aesthetic needs with technological and production methods to create manufactured products. Product Design Principles		X

TITLE	DEPARTMENT	LEVEL	DESCRIPTION	SUSTAINABILITY COURSE <sup>2</sup>	COURSE CONTAINS SUSTAINABILITY CONTENT <sup>3</sup>
			cover the human/object interface, product form, innovation, redesign, and eco-design. Research Product Cases with reflective writing. Sketching and hands-on projects emphasize design methods. Fall, Spring.		
263.SPDI152 Product Design I	SPDI	UG	Product design involves the integration of human and aesthetic aspects with technological and production aspects in the creation of manufactured products. This first in a series of courses in product design includes areas of human/object interface, product form, product innovation, and an introduction to eco-design. All three Product Design courses address principles of sustainability. Fall, Spring.		X
264.IITDS160 Peak Oil and Sustainable Solutions	SPDI	UG	Apply tools of many different disciplines to explore national and international issues surrounding “Peak Oil” – impacts of dwindling supplies of fossil fuels, environmental and social costs of energy conversion processes, national energy policies, and grassroots activism. Develop interdisciplinary problem-solving skills by promoting sustainable solutions in a service-learning project. Four-hour seminar. Spring.	X	
265.SPDI304 Materials: A Life-Cycle View	SPDI	UG	Materials chosen for use in products have important ramifications for the product’s performance and its impacts throughout its life cycle. Emphasis is on the properties and manufacturing processes informing the selection of materials converted to useful products. A material life cycle view provides transparency to human health and environmental effects.	X	
266.SPDI351 Product Design II	SPDI	UG	A continuation of Product Design I, emphasis is on rational methods for developing designs in team settings. Basic engineering methods of analysis are introduced to evaluate design structures and mechanisms. Alternative design options are evaluated using analytical techniques such as life cycle assessment. Project planning fundamentals of time and budget emulate industrial development practices. All three Product Design courses address principles of sustainability.		X

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267.SPDI352 Product Design III	SPDI	UG	This course is the third in the product design series. Specific design projects are undertaken, which require an advanced knowledge of computer-aided design/manufacturing. Topics include initial product design, product specifications, prototype fabrication, and evaluation. All three Product Design courses address principles of sustainability. Two-hour lecture, three-hour lab. May be repeated once with the permission of instructor. Spring.		X
268.IATAD113 Dance as A Way of Knowing	THEATER AND DANCE	UG	This experiential dance course addresses issues of identity, culture, and ethics through personal movement exploration and analysis of master works from turning points in modern dance history. Open to all, students in this class will closely examine their place in the world and how they physically navigate within any space. Students will explore how personal history, culture, and place influence how and why we move. Students will also watch seminal works that have shaped not only “dance” as an art form, but how we move with and among others every day. This course is included in the inventory because sustainability can be approached through multiple ways of knowing and movement opens up different access to sustainability challenges such as identify and ethical behavior. Fall, Spring.		X
269.IIWGS101 Introduction to Women’s and Gender Studies	WOMEN’S AND GENDER STUDIES	UG	This course is designed to introduce students to the key issues, questions, and debates in the interdisciplinary field of Women’s and Gender Studies. Central to the course will be a focus on the social construction of identity and the myriad ways in which gender, race, class, sexuality, and nationality work to constitute people’s experiences. Fall, Spring.	X	
270.IIWGS210 Reproductive Justice	WGS	UG	An interdisciplinary examination of reproductive justice in the U.S. and other countries. Drawing on concepts from critical race theory, critical legal theory, and feminist theory, among others, students will explore the history informing ideas about reproduction, including eugenics, abortion debates, inequality in access to reproductive services, and similar topics.		X

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271.IIWGS220 Starved or Stuffed	WGS	UG	When the body is read as text, eating disorders are manifestations of cultural ideas that communicate to the self and the masses. This interdisciplinary course examines eating disorders through the optic of feminism, taking into consideration feminist discourse, theories of consumption and subjectivity formation, psychology, sociology, and literary analyses. Fall.		X
272.IIWGS230 Spirituality and Sexuality	WGS	UG	An interdisciplinary exploration of spirituality and sexuality, drawing from history, religion, as well as women's and gender studies. Key questions: How are institutions of religion socially constructed? How do they affect women's ways of knowing, women's spirituality, and women's sexuality? What are new ways of representing spirituality as social inquiry? Prerequisites: <a href="#">ITW 101</a> . Spring, alternate years.		X
273.IIWGS240 Race, Gender, Sexuality, and Pop Culture	WGS	UG	We take an interdisciplinary approach to studying representations of gender (as well as class, race, and sexuality) in the mass media and popular culture. Using literature from cultural studies, communication, sociology, and other disciplines, we explore dominant ideologies and how they are perpetuated (or not) in media products. Fall.		X
274.IIWGS300 Critical Ethnic Studies	WGS	UG	This class will investigate interdisciplinary concepts and theories that analyze ethnic group experiences and their relation to colonization, immigration, and issues of identity, both in the United States and globally.		X
275.WGS301 Feminist Theories	WGS	UG	This course investigates and interrogates key theoretical debates within the feminist movement and women's and gender studies. Central to this course is the idea that understanding significant categories such as race, class, gender, sexuality, and nationality is an interpretive, theoretical, and political act. Fall, Spring.		X
276.WGS302 Queer Theory	WGS	UG	Queer studies provide a range of theoretical approaches that challenge fixed, essentialist identities, drawing attention to incoherencies in the allegedly stable sex/gender system. Placing a variety of queer theories in their historical context,		X

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			this interdisciplinary course will provide a survey of contemporary arguments and critical terms used in the field. Spring.		
277.WGS303 Latina Feminist Theories	WGS	UG	This class is an interdisciplinary examination of Latina feminist theories, drawing from history, epistemology, third-world feminisms, creative nonfiction literature, and art performances. The course is organized around the following issues: colonization, immigration, globalization, critical race theory, sexism, and Latina image representation. Offered every other fall.		X
278.WGS304 Feminist Media Theory	WGS	UG	We take an interdisciplinary approach to studying the media using theories from cultural studies, communication, sociology, psychology, and other fields. We examine various media artifacts (TV shows, commercials, movie clips) in class. Students use appropriate theories to write a research paper on their choice of media-related topic. Occasionally.		X

1334 TOTAL COURSES

278 Sustainability-focuses or sustainability-inclusive

81 SUSTAINABILITY-FOCUSED

197 SUSTAINABILITY-INCLUSIVE