<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Name</th>
<th>Sustainability Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>GES 101</td>
<td>Foundations of Environmental Sustainability</td>
<td>Concepts, foundations, and metrics of global environmental sustainability applied to global challenges.</td>
</tr>
<tr>
<td>GES 130</td>
<td>Introduction to Sustainability Engagement</td>
<td>Overview of sustainability as relating to local and campus issues.</td>
</tr>
<tr>
<td>GES 192</td>
<td>Global Environmental Sustainability Seminar</td>
<td>Critical interconnections of global environmental sustainability, the environment, economics, and society.</td>
</tr>
<tr>
<td>GES 330A</td>
<td>Sustainability in Practice: Project</td>
<td>Engages students in real-world sustainability applications and empowers them to design and execute their own program or research project. A) Project. B) Service Learning.</td>
</tr>
<tr>
<td>GES 330B</td>
<td>Sustainability in Practice: Service Learning</td>
<td>Engages students in real-world sustainability applications and empowers them to design and execute their own program or research project. A) Project. B) Service Learning.</td>
</tr>
<tr>
<td>GES 441</td>
<td>Analysis of Sustainable Energy Solutions</td>
<td>Methods of evaluating sustainable energy technologies, including life cycle assessment, energy return on investment, technoeconomic analysis, and political ecology.</td>
</tr>
<tr>
<td>GES 450</td>
<td>Global Sustainability and Health</td>
<td>Impact of anthropogenic environmental change on human, animal and environmental health.</td>
</tr>
<tr>
<td>GES 460</td>
<td>Law and Sustainability</td>
<td>Introduction to the domestic and international laws that influence and interact with the implementation of sustainability in the U.S. and abroad.</td>
</tr>
<tr>
<td>GES 470</td>
<td>Applications of Environmental Sustainability</td>
<td>Integration of dimensions of global environmental sustainability environment, society, and economy through case studies and team project.</td>
</tr>
<tr>
<td>AGRI 116</td>
<td>Plants and Civilizations</td>
<td>Course focused on plant origins and their relationships with cultures/civilizations.</td>
</tr>
<tr>
<td>AGRI 270</td>
<td>World Interdependence-Population and Food</td>
<td>Survey of world population and food; emphasis on understanding the problems and opportunities in a world context.</td>
</tr>
<tr>
<td>ANEQ 448</td>
<td>Livestock Manure Management and Environment</td>
<td>Manure management; maximizing benefits to soils and crops; minimizing air and water quality hazards; complying with regulations.</td>
</tr>
<tr>
<td>ANTH 200</td>
<td>Cultures and the Global System</td>
<td>Analyze diversity, cultural responses, and adaptations of smaller-scale societies to emerging global trends.</td>
</tr>
<tr>
<td>Course Code</td>
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<tr>
<td>ANTH 415</td>
<td>Indigenous Ecologies and the Modern World</td>
<td>Impact of the modern world on indigenous peoples relationship to their environments and natural resources.</td>
</tr>
<tr>
<td>ANTH 417</td>
<td>Indigenous Environmental Stewardship</td>
<td>Sustainability and environmental stewardship are not necessarily modern day concepts. Indigenous peoples of North America have established traditions and beliefs about harmony and kinship with nature. Focus upon stories and belief systems and their influence upon culture, economics, politics, American history, environmental justice and law.</td>
</tr>
<tr>
<td>ANTH 482A</td>
<td>Study Abroad: Communities and Conservation in South Africa</td>
<td>Travel to the wildest areas of savanna South Africa to work and learn from rural and urbanizing communities. Insights into the innovative forms of community-based natural resource management emerging in South Africa. Understand the new landscapes of conservation associated with post-apartheid South Africa. Explore the problems faced by the millions of people living in poverty at the edge of protected areas.</td>
</tr>
<tr>
<td>AREC 202</td>
<td>Agricultural and Resource Economics</td>
<td>Introduction to decision-making by consumers, firms, and government and the resulting allocation of resources through markets.</td>
</tr>
<tr>
<td>AREC 240</td>
<td>Issues in Environmental Economics</td>
<td>Discussion and economic analysis of current environmental issues with special emphasis on the impact of economic growth.</td>
</tr>
<tr>
<td>AREC 340</td>
<td>Introduction: Economics of Natural Resources</td>
<td>Concepts, theories, institutions; analytical methods for economic evaluation of alternative resource use patterns and land use plans.</td>
</tr>
<tr>
<td>AREC 341</td>
<td>Environmental Economics</td>
<td>Economic theories and analytic frameworks are developed and applied to contemporary problems of the use and protection of the natural environment.</td>
</tr>
<tr>
<td>AREC 381</td>
<td>Introduction to Environmental Economics</td>
<td>Design and measurement of economic values and environmental policy; how the theory can be used to construct solutions to real-world problems.</td>
</tr>
<tr>
<td>AREC 440</td>
<td>Advanced Environmental and Resource Economics</td>
<td>Microeconomic techniques to rigorously explore economic decision-making and policy as they apply to environmental and natural resource problems.</td>
</tr>
<tr>
<td>AREC 442</td>
<td>Economics of Energy Resources</td>
<td>Supply, consumption trends, and projected demand for alternative energy resources in domestic and world perspective; economics of public energy policies.</td>
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<tr>
<td>AREC 482A</td>
<td>Study Abroad Environmental Economics in Italy: Managing a Sustainable Global Environment</td>
<td>The economics of managing environmental assets in a sustainable manner. Presents a theoretical basis for different resource management systems including various methods of cost–benefit analysis, utility theory, property right structures, government institutions, and cultural and ethical aspects. Considers specific policies aimed at sustaining the environment and their impacts on specific natural resource and agricultural products.</td>
</tr>
<tr>
<td>ATS 150</td>
<td>Science of Global Climate Change</td>
<td>Physical basis of climate change. Energy budget of the earth, the greenhouse effect, carbon cycle, paleoclimate, projections of 21st-century climate.</td>
</tr>
<tr>
<td>ATS 350</td>
<td>Introduction to Weather and Climate</td>
<td>Behavior of atmosphere and its influence upon human’s activities; integrates environmental and social aspects of sustainability</td>
</tr>
<tr>
<td>BSPM 415</td>
<td>Pollinator Management in Agroecosystems</td>
<td>Fundamental concepts of pollinator management, sustainable crop-pollinator interactions, global issues on pollinator conservation.</td>
</tr>
<tr>
<td>BUS 201</td>
<td>Foundations of Sustainable Enterprise</td>
<td>Basics of sustainability in business and implications for business decision making.</td>
</tr>
<tr>
<td>BUS 405</td>
<td>Contemporary Business Topics</td>
<td>Course integrates the social responsibility aspect of sustainability in business environments</td>
</tr>
<tr>
<td>BZ 348</td>
<td>Theory of Population and Evolutionary Ecology</td>
<td>Principles and methods for building, analyzing, and interpreting mathematical models of ecological and evolutionary problems in biology.</td>
</tr>
<tr>
<td>BZ 353</td>
<td>Global Change Ecology, Impacts and Mitigation</td>
<td>Ecological impacts of human-induced global change, and the strategies that can/are being used to adapt to and mitigate these impacts.</td>
</tr>
<tr>
<td>BZ 449A</td>
<td>Study Abroad: Ecology/Conservation-Ecuadorian Biodiversity</td>
<td>Winter (January) study abroad experience in Ecuador. First-hand exposure to the unparalleled biodiversity of Ecuador. Ecuador is an ideal location to learn about tropical biodiversity, because it houses an enormous diversity of tropical ecosystems in a relatively small geographic area, all of which are very accessible. Students will visit these ecosystems—including cloud forest, páramo, and lowland Amazonian rainforest.</td>
</tr>
<tr>
<td>BZ 472</td>
<td>Stream Biology and Ecology Laboratory</td>
<td>Field sampling and laboratory analysis of habitats, biota, and ecological relationships in running waters</td>
</tr>
<tr>
<td>CBE 439</td>
<td>Environmental Engineering Chemical Concepts</td>
<td>Application of chemical principles to environmental engineering problems.</td>
</tr>
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<tr>
<td>CHEM 338</td>
<td>Environmental Chemistry</td>
<td>Processes that control the fate of chemicals in the environment. Focus on the chemistry of the atmosphere, hydrosphere, and soils, especially as it pertains to pollution of these environmental compartments. Topics covered in the course may include smog and air pollution, ocean acidification, acid mine drainage, pesticide chemistry, and heavy metal contamination.</td>
</tr>
<tr>
<td>CIVE 330</td>
<td>Ecological Engineering</td>
<td>Principles of ecological engineering and design of sustainable ecosystems.</td>
</tr>
<tr>
<td>CIVE 413</td>
<td>Environmental River Mechanics</td>
<td>Fluvial geomorphology, river hydraulics, sediment transport, and river response with emphasis on environmental aspects.</td>
</tr>
<tr>
<td>CIVE 438</td>
<td>Environmental Engineering Concepts</td>
<td>Environmental engineering approaches to designing water supply, wastewater removal, and pollution control systems.</td>
</tr>
<tr>
<td>CIVE 439</td>
<td>Environmental Engineering Chemical</td>
<td>Application of chemical principles to environmental engineering problems.</td>
</tr>
<tr>
<td>CIVE 442</td>
<td>Air Quality Engineering</td>
<td>Air pollution problems and solutions, at scales ranging from local to global. Quantitative analysis of chemical and physical processes governing air pollutants in natural and built environments.</td>
</tr>
<tr>
<td>CIVE 458</td>
<td>Environmental Geotechnics</td>
<td>Application of principles from soil physics, soil chemistry, soil mechanics, hydrogeology, and geotechnical engineering to solve problems in Environmental Geotechnics related to engineered containment of contaminants and remediation of contaminated sites for the protection of human health and the environment.</td>
</tr>
<tr>
<td>CON 450</td>
<td>Travel Abroad-Sustainable Building</td>
<td>Major components of sustainable design and construction, energy, healthy buildings, natural resources, and other environmental issues.</td>
</tr>
<tr>
<td>CON 476</td>
<td>Sustainable Practice-Design and Construction</td>
<td>Major components of sustainable design/construction: energy, healthy buildings, cultural, natural resources, use, other environmental/economic issues.</td>
</tr>
<tr>
<td>CON 477</td>
<td>Residential Aging-in-Place and Green Building</td>
<td>Aging-in-place and green building aspects of the residential construction market.</td>
</tr>
<tr>
<td>E 403</td>
<td>Writing the Environment</td>
<td>Creative writing in conjunction with study of recent American literature on nature and landscape.</td>
</tr>
<tr>
<td>ECON 240</td>
<td>Issues in Environmental Economics</td>
<td>Discussion and economic analysis of current environmental issues with special emphasis on the impact of economic growth.</td>
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<tr>
<td>ECON 346</td>
<td>Economics of Outdoor Recreation</td>
<td>Benefit cost framework in public planning for outdoor recreation, pricing problems, projecting demand, and regional economic development.</td>
</tr>
<tr>
<td>ECON 444</td>
<td>Economics of Energy Resources</td>
<td>Supply, consumption trends, and projected demand for alternative energy resources in domestic and world perspective; economics of public energy policies.</td>
</tr>
<tr>
<td>ERHS 220</td>
<td>Environmental Health</td>
<td>Impact of people on the physical and biological environment as well as impact of the environment on people; emphasis placed on human health.</td>
</tr>
<tr>
<td>ERHS 230</td>
<td>Environmental Health Field Methods</td>
<td>Field and laboratory techniques necessary for practice of environmental health.</td>
</tr>
<tr>
<td>ERHS 320</td>
<td>Environmental Health- Water and Food Safety</td>
<td>Water quality and food safety for practice of environmental health.</td>
</tr>
<tr>
<td>ERHS 350</td>
<td>Industrial Hygiene and Air</td>
<td>Industrial and airborne hazards, disease prevention, hazard control and evaluation.</td>
</tr>
<tr>
<td>ERHS 410</td>
<td>Environmental Health Waste Management</td>
<td>Recognition of impacts, occupational and environmental, in handling wastes; administrative management for waste programs.</td>
</tr>
<tr>
<td>ERHS 430</td>
<td>Human Disease and the Environment</td>
<td>Overview of the human diseases which are associated with the environment.</td>
</tr>
<tr>
<td>ERHS 446</td>
<td>Environmental Toxicology</td>
<td>Essentials of environmental toxicology based on problem-oriented discussions addressing environmental impacts of organic/inorganic chemicals.</td>
</tr>
<tr>
<td>ERHS 448</td>
<td>Environmental Contaminants: Exposure and Fate</td>
<td>Pathways of exposure and behavior of environmental contaminants. Exposure assessment in environmental health protection.</td>
</tr>
<tr>
<td>ESS 129</td>
<td>Information Management for Sustainability</td>
<td>Learn to access, retrieve, store, and manipulate information for natural resources and sustainability applications. Basic mapping, statistics, and graphing.</td>
</tr>
<tr>
<td>ESS 130</td>
<td>System Theory and Information Management</td>
<td>Applying computers, networks, software applications, and the internet for managing information in ecosystem science and sustainability.</td>
</tr>
<tr>
<td>ESS 210</td>
<td>Physical Geography</td>
<td>Energy, mass budget, and human impacts on atmosphere, hydrosphere, and continental land surfaces.</td>
</tr>
<tr>
<td>ESS 211</td>
<td>Foundations in Ecosystem Science</td>
<td>Linkage between society and ecosystems services as foundation for sustainability of the coupled human-environmental system.</td>
</tr>
<tr>
<td>ESS 311</td>
<td>Ecosystem Ecology</td>
<td>Principles of ecosystems ecology, emphasis on their application to coupled natural and human systems.</td>
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<tr>
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<tr>
<td>ESS 312</td>
<td>Sustainability Science</td>
<td>Synthesize multifaceted information across a wide range of disciplines, with the goal to develop potential solutions to complex human-societal-environmental challenges at multiple scales. Implement methods for understanding current issues, develop alternative scenarios to current practices and policies, and stage interventions to achieve more sustainable behaviors and practices.</td>
</tr>
<tr>
<td>ESS 400</td>
<td>Global Perspectives on Sustainability</td>
<td>Explores the intersections between ecosystem science, communities and sustainability in the context of the global challenges of climate change focusing on the new global framework (The Paris Agreement), Sustainable Development Goals (SDGs), and ecological indicators.</td>
</tr>
<tr>
<td>ESS 412</td>
<td>Sustainable Cities</td>
<td>Explore the ecology of cities, evaluate the most innovative science developed for the city, and discuss with renowned researchers leading these efforts. Analyze sustainability plans from a variety of cities around the globe, and interact with the practitioners developing and implementing sustainable goals. Delve into sustainability theory, specifically &quot;the sustainable city myth.&quot;</td>
</tr>
<tr>
<td>ESS 440</td>
<td>Practicing Sustainability</td>
<td>Capstone integration of ecosystem science and sustainability, focused on case studies.</td>
</tr>
<tr>
<td>ESS 482A</td>
<td>Study Abroad: Communities and Conservation in South Africa</td>
<td>Travel to the wildest areas of savanna South Africa to work and learn from rural and urbanizing communities. Insights into the innovative forms of community-based natural resource management emerging in South Africa. Understand the new landscapes of conservation associated with post-apartheid South Africa. Explore the problems faced by the millions of people living in poverty at the edge of protected areas.</td>
</tr>
<tr>
<td>ESS 486</td>
<td>Ecosystem Practicum</td>
<td>One-week field practicum to examine ecosystem science and sustainability issues in Colorado landscapes.</td>
</tr>
<tr>
<td>ETST 256</td>
<td>Border Crossings: People/Politics/Culture</td>
<td>Colonial and post-colonial discourse, politics of representation and epistemology of &quot;location&quot; it has produced: first and third world.</td>
</tr>
<tr>
<td>ETST 365</td>
<td>Global Environmental Justice Movements</td>
<td>How the world’s poor and minorities self-empower to challenge institutional racism and government apathy in order to secure basic environmental goods.</td>
</tr>
<tr>
<td>FSHN 496B</td>
<td>Group Study in Dietetics and Nutrition-Sustainable Food Issues</td>
<td>Current topics in nutrition and professional skills for the dietetics profession.</td>
</tr>
<tr>
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<tr>
<td>FW 104</td>
<td>Wildlife Ecology and Conservation</td>
<td>Essentials of wildlife ecology as a foundation for understanding issues on the origins, management and conservation of biodiversity.</td>
</tr>
<tr>
<td>FW 304</td>
<td>Conservation of Marine Megafauna</td>
<td>The ecology, systematics, behavior and conservation of large marine animals including giant squid, bony fishes, sharks, sea turtles, seabirds, and marine mammals. Examines the relations between ocean dynamics and large marine animals, and provides insights in the roles that marine megafauna species play in ocean ecosystems. Study impacts of human activities, such as bycatch and climate change, and their effect on ocean species.</td>
</tr>
<tr>
<td>FW 465</td>
<td>Managing Human-Wildlife Conflicts</td>
<td>Methods for resolving conflicts caused by wildlife: integrating animal behavior, population dynamics, economics, and human dimensions into solutions.</td>
</tr>
<tr>
<td>GEOL 120</td>
<td>Exploring Earth: Physical Geology</td>
<td>Develops scientific understanding through introduction to earth processes, materials, resources, and hazards.</td>
</tr>
<tr>
<td>GEOL 122</td>
<td>The Blue Planet: Geology of Our Environment</td>
<td>Develops scientific understanding through introduction to geological processes, natural hazards, earth resources, and their impacts on society.</td>
</tr>
<tr>
<td>GEOL 124</td>
<td>Geology of Natural Resources</td>
<td>Develops scientific understanding through introduction to the origin, use, and environmental impact of geological resources extracted from the Earth.</td>
</tr>
<tr>
<td>GEOL 446</td>
<td>Environmental Geology</td>
<td>Geology applied to environmental problems.</td>
</tr>
<tr>
<td>GR 304</td>
<td>Sustainable Watersheds</td>
<td>Effects of climate, land use, and water use on the sustainability of water quantity and quality.</td>
</tr>
<tr>
<td>GR 333</td>
<td>Glaciers and Climate Change</td>
<td>Glacier mass balance, dynamics, past fluctuations, and glaciers' relation to climate change.</td>
</tr>
<tr>
<td>GR 410</td>
<td>Climate Change</td>
<td>Implications and consequences for earth systems including the cryosphere, hydrosphere, biosphere and human systems.</td>
</tr>
<tr>
<td>GR 415</td>
<td>The Geography of Commodities</td>
<td>Social relations, international trade, and environmental impacts surrounding the production, transportation, exchange, and consumption of commodities.</td>
</tr>
<tr>
<td>HIST 355</td>
<td>American Environmental History</td>
<td>Interaction of humans and nature in American history with emphasis on relationships between environmental, social, and cultural change.</td>
</tr>
<tr>
<td>HIST 439</td>
<td>Environmental 'history of the Middle East</td>
<td>Explores the social, political, and ecological consequences of past human interactions with the environment in the Middle East and North Africa.</td>
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<tr>
<td>HIST 470</td>
<td>World Environmental History, 1500-Present</td>
<td>World environmental history since 1500, emphasizing the dynamic interaction of nature, culture, and human activity.</td>
</tr>
<tr>
<td>HORT 100</td>
<td>Horticultural Science (AUCC 3A)</td>
<td>Principles of plant science and related disciplines as the base and context for the introduction of horticulture practices.</td>
</tr>
<tr>
<td>HORT 171</td>
<td>Environmental Issues in Agriculture</td>
<td>Historical development of agriculture; environmental consequences of modern food production, and other cultural approaches to agriculture.</td>
</tr>
<tr>
<td>HORT 345</td>
<td>Diagnosis and Treatment in Organic Fields</td>
<td>Field experience in diagnosis of pest and nutrient problems on organic farms and development of treatment recommendations.</td>
</tr>
<tr>
<td>HORT 368</td>
<td>Landscape Irrigation and Water Conservation</td>
<td>Practical approaches and methods of irrigation, water conservation, and water management in the designed landscape.</td>
</tr>
<tr>
<td>HORT 424</td>
<td>Topics in Organic Agriculture</td>
<td>Examination of issues specific to organic food production systems and marketing.</td>
</tr>
<tr>
<td>HORT 476</td>
<td>Environmental Plant Stress Physiology</td>
<td>Plant growth, development and physiology, major sources of stress in plants, global issues in environment and plant stress.</td>
</tr>
<tr>
<td>IE 116</td>
<td>Plants and Civilizations</td>
<td>Plant origins and their relationships with cultures/civilizations as food, spices, perfumes, medicine, art, mythology, religion, wars, exploration, slavery.</td>
</tr>
<tr>
<td>IE 179</td>
<td>Globalization: Exploring Our Global Village</td>
<td>Analysis and implications of social, cultural, economic, and political change in the context of globalization and transnational relationships.</td>
</tr>
<tr>
<td>IE 270</td>
<td>World Interdependence-Population and Food</td>
<td>Survey of world population and food; emphasis on understanding the problems and opportunities in a global context.</td>
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<td>INTD 450</td>
<td>Travel Abroad-Sustainable Building</td>
<td>Major components of sustainable design and construction, energy, healthy buildings, natural resources, and other environmental issues.</td>
</tr>
<tr>
<td>MGT 360</td>
<td>Social and Sustainable Venturing</td>
<td>Entrepreneurship and economic opportunities in the transition to a socially and ecologically sustainable global economy.</td>
</tr>
<tr>
<td>NR 120A</td>
<td>Environmental Conservation</td>
<td>Overview of natural resources environmental concerns including population, pesticides, energy, and pollution.</td>
</tr>
<tr>
<td>NR 120B</td>
<td>Environmental Conservation</td>
<td>Overview of natural resources environmental concerns including population, pesticides, energy, and pollution.</td>
</tr>
<tr>
<td>NR 130</td>
<td>Global Environmental Systems</td>
<td>Studies of the earth's lithosphere, hydrosphere, atmosphere, and biosphere systems, and their interrelations with human dimensions.</td>
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<tr>
<td>NR 150</td>
<td>Oceanography</td>
<td>Introduction to the geology, physics, chemistry, and biology of the world ocean; oceanic relationships with various human dimensions.</td>
</tr>
<tr>
<td>NR 310</td>
<td>Ecosystem Services and Human Well-Being</td>
<td>Life supporting and life-fulfilling benefits that nature provides to humans; theory, case studies, and policy.</td>
</tr>
<tr>
<td>NR 320</td>
<td>Natural Resources History and Policy</td>
<td>History, values and institutions, and policy process guiding natural resources management and conservation.</td>
</tr>
<tr>
<td>NR 353</td>
<td>Global Change Ecology, Impacts and Mitigation</td>
<td>Ecological impacts of human-induced global change, and the strategies that can/are being used to adapt to and mitigate these impacts.</td>
</tr>
<tr>
<td>NR 355</td>
<td>Contemporary Environmental Issues</td>
<td>Fundamental concepts of energy, population, and ecology applied to range of contemporary environmental issues.</td>
</tr>
<tr>
<td>NR 365</td>
<td>Environmental Education</td>
<td>Principles of interpretation related to natural resource management and public informal education.</td>
</tr>
<tr>
<td>NR 375</td>
<td>Environment and Natural Resources Leadership</td>
<td>Environment and natural resources leadership history, skills, and styles. Creation of leadership path and organization prescriptions.</td>
</tr>
<tr>
<td>NR 425</td>
<td>Natural Resource Policy and Sustainability</td>
<td>Principles, concepts, and operating examples of sustainable resource management with a concentration on forest policies and practices.</td>
</tr>
<tr>
<td>NR 492</td>
<td>Seminar on Environmental Conservation</td>
<td>Specific topics selected each semester related to environmental conservation.</td>
</tr>
<tr>
<td>NRRT 470</td>
<td>Tourism Impacts</td>
<td>Social, cultural, physical, and economic impacts of tourism; techniques for assessing impacts on environment.</td>
</tr>
<tr>
<td>PHIL 320</td>
<td>Ethics of Sustainability</td>
<td>Ethical and conceptual issues surrounding creation of sustainable societies and lifestyles. Required field trips.</td>
</tr>
<tr>
<td>PHIL 345</td>
<td>Environmental Ethics</td>
<td>Scientific, philosophical, and religious concepts of nature as they bear on human conduct; an ecological perspective.</td>
</tr>
<tr>
<td>POLS 131</td>
<td>Current World Problems</td>
<td>Background and nature of international political events.</td>
</tr>
<tr>
<td>POLS 361</td>
<td>U.S. Environmental Politics and Policy</td>
<td>Public and contemporary issues relating to U.S. environmental policy.</td>
</tr>
<tr>
<td>POLS 362</td>
<td>Global Environmental Politics</td>
<td>Cross-national and international contexts of environmental politics and policy.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
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<tr>
<td>POLS 382A</td>
<td>Study Abroad: Global Environmental Politics in the Amazon</td>
<td>Explores global environmental politics in the Brazilian Amazon. Through lectures, site visits, and meetings with local decision-makers, stakeholders and activists, apply international relations theories and concepts to understand various social, economic, political and ecological dimensions of global environmental problems such as biodiversity loss and climate change and efforts to address these problems from the global to local levels.</td>
</tr>
<tr>
<td>POLS 442</td>
<td>Environmental Politics in Developing World</td>
<td>Examines environmental politics in developing countries and evaluates climate change, natural resource governance and environmental justice.</td>
</tr>
<tr>
<td>POLS 462</td>
<td>Globalization, Sustainability, and Justice</td>
<td>Public and private policies to promote sustainability and social justice in a globalizing world.</td>
</tr>
<tr>
<td>PSY 316</td>
<td>Environmental Psychology</td>
<td>Social psychological theory and research on effects of behavior on the environment; environmental influences on behavior.</td>
</tr>
<tr>
<td>RS 300</td>
<td>Rangeland Conservation and Stewardship</td>
<td>Conservation and management of rangeland-ecosystem values using sustainable practices.</td>
</tr>
<tr>
<td>SOC 220</td>
<td>Global Environmental Issues</td>
<td>Relationship between human societies around the world and the larger natural environment.</td>
</tr>
<tr>
<td>SOC 320</td>
<td>Population-Natural Resources and Environment</td>
<td>Population studies; world growth patterns and their relationship to natural resources and environment.</td>
</tr>
<tr>
<td>SOC 321</td>
<td>Soil, Environment, and Society</td>
<td>Role of soil in our environment and its value as it relates to the social and economic well-being of society.</td>
</tr>
<tr>
<td>SOC 322</td>
<td>Introduction to Environmental Justice</td>
<td>Unequal distribution of environmental risks, benefits, policies and regulatory practices across different populations.</td>
</tr>
<tr>
<td>SOC 324</td>
<td>Food Justice</td>
<td>Food justice strives to eliminate exploitation and oppression by challenging the structural drivers within and beyond the food system. As a practice, food justice advocates for the right to healthy food that is justly and sustainably produced, recognizes diverse cultural foodways and histories, and promotes democratic participation and equitable distribution of resources in the food system.</td>
</tr>
<tr>
<td>SOC 460</td>
<td>Society and Environment</td>
<td>Technology as a social phenomenon interacting with social organization and the natural environment.</td>
</tr>
<tr>
<td>SOC 461</td>
<td>Water, Society, and Environment</td>
<td>Social aspects of water resource utilization; interface of social organization with physical environment.</td>
</tr>
<tr>
<td>SOCR 171</td>
<td>Environmental Issues in Agriculture</td>
<td>Historical development of agriculture; environmental consequences of modern food production and other cultural approaches to agriculture.</td>
</tr>
<tr>
<td>Course Code</td>
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<tr>
<td>SOCR 341</td>
<td>Microbiology for Sustainable Agriculture</td>
<td>Functional roles and management of soil organisms in organic agriculture, emphasis on ecological interactions with plants and plant pathogens.</td>
</tr>
<tr>
<td>SOCR 345</td>
<td>Diagnosis and Treatment in Organic Fields</td>
<td>Field experience in diagnosis of pest and nutrient problems on organic farms and development of treatment recommendations.</td>
</tr>
<tr>
<td>SOCR 400</td>
<td>Soils and Global Change: Science and Impacts</td>
<td>Foundations on the science of global change and its impact on soil processes and biota.</td>
</tr>
<tr>
<td>SOCR 401</td>
<td>Greenhouse Gas Mitigation, Land Use and Management</td>
<td>Introduction to greenhouse gas estimation methods and mitigation project development in the land use sector.</td>
</tr>
<tr>
<td>SOCR 424</td>
<td>Topics in Organic Agriculture</td>
<td>Examination of issues specific to organic food production systems and marketing.</td>
</tr>
<tr>
<td>SPCM 429</td>
<td>Environmental Discourse</td>
<td>Environmental communication in advocacy campaigns, media representations of science, encounters with nature, and public policy.</td>
</tr>
<tr>
<td>WR 304</td>
<td>Sustainable Watersheds</td>
<td>Effects of climate, land use, and water use on the sustainability of water quantity and quality.</td>
</tr>
<tr>
<td>ANTH 453</td>
<td>Impacts on Ancient Environments</td>
<td>Major issues and case studies in the archaeology of ancient human societies and their environmental impacts</td>
</tr>
<tr>
<td>AGED 110</td>
<td>Agriculture Production Systems</td>
<td>Broad survey of the diverse aspects of Colorado agriculture.</td>
</tr>
<tr>
<td>AGED 220</td>
<td>Understanding Agricultural Education</td>
<td>Understanding different agricultural education systems. Understanding delivery models of agricultural education programs.</td>
</tr>
<tr>
<td>AGED 244</td>
<td>Power Systems in Agricultural Education</td>
<td>Development of safe competencies and applications related to power and technical tools utilized in school-based agricultural education programs.</td>
</tr>
<tr>
<td>AGED 420</td>
<td>Developing School Based Ag Education Programs</td>
<td>Developing knowledge in the approach and delivery of school-based agricultural education programs.</td>
</tr>
<tr>
<td>AGRI 300</td>
<td>Issues in Agriculture</td>
<td>Scientific, technical, cultural, and social issues facing agriculture, and their interrelationships</td>
</tr>
<tr>
<td>AGRI 330</td>
<td>Agricultural And Food Systems Ethics</td>
<td>Basic concepts in ethics and their application to agriculture and the food system.</td>
</tr>
<tr>
<td>AGRI 383</td>
<td>U.S. Travel-Integrated Resource Management</td>
<td>Evaluation of integrated ranch management decision alternatives in conjunction with professional resource managers.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Overview</td>
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<tr>
<td>AM 321</td>
<td>Advanced Textiles</td>
<td>Textile product serviceability; effect of fiber structure on properties and performance; new developments.</td>
</tr>
<tr>
<td>AM 330</td>
<td>Textile and Apparel Economics</td>
<td>Manufacture of textile and apparel products; structure of the industries; international trade and consumption.</td>
</tr>
<tr>
<td>AM 335</td>
<td>Textiles and Apparel Supply Chains</td>
<td>Managing the flow of materials, information, and finances as they move in a process from supplier to retailers and consumers in a global environment.</td>
</tr>
<tr>
<td>AM 466</td>
<td>Retail Environment Design and Planning</td>
<td>Application of design/merchandising principles to retail selling environments, including traditional store design/layout, direct mail, and websites.</td>
</tr>
<tr>
<td>AM 475</td>
<td>Product Development III</td>
<td>Technology-based product innovation for positive social and environmental impacts.</td>
</tr>
<tr>
<td>AM 479</td>
<td>Merchandising Policies and Strategies</td>
<td>Examination of merchandising environment as influenced by its structure, and economic, legal, demographic, and psychographic trends.</td>
</tr>
<tr>
<td>AMST 100</td>
<td>Self/Community in American Culture, 1600-1877</td>
<td>Meaning and development of American culture, 1600-1877, through themes of self and community in art, politics, society, and religion.</td>
</tr>
<tr>
<td>AMST 101</td>
<td>Self/Community in American Culture Since 1877</td>
<td>Meaning and development of American culture since 1877, through themes of self and community in art, politics, society, and religion.</td>
</tr>
<tr>
<td>ANEQ 101</td>
<td>Food Animal Science</td>
<td>Development, organization, trends and management of the livestock industry; emphasis on applying science to the production of food and fiber.</td>
</tr>
<tr>
<td>ANEQ 104</td>
<td>Values, Culture, and Food Animal Agriculture</td>
<td>Evolution of the social values and cultural understandings shaping modern animal agriculture; current problems in animal agriculture.</td>
</tr>
<tr>
<td>ANEQ 220</td>
<td>Feeds and Feeding</td>
<td>Advantages and limitations of feedstuffs; nutrients and their functions; and feed practices for all physiological stages of livestock.</td>
</tr>
<tr>
<td>ANEQ 286</td>
<td>Livestock Practicum</td>
<td>Livestock breeds and terminology; classification of feedstuffs; livestock handling and care; basic animal management techniques, hands-on experience.</td>
</tr>
<tr>
<td>ANEQ 300W</td>
<td>Topics in Animal Sciences: Equine Manure</td>
<td>Practices which maximize the benefits of manure to soils and crops while minimizing hazards to air and water quality; complying with regulations.</td>
</tr>
<tr>
<td>ANEQ 313</td>
<td>Prevention and Control of Livestock Diseases</td>
<td>Common ailments of livestock; sanitation and disease prevention and control.</td>
</tr>
<tr>
<td>Course Code</td>
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<tr>
<td>ANEQ 320</td>
<td>Principles of Animal Nutrition</td>
<td>Understanding of nutrients and nutrient function required to support animal life through all physiological states.</td>
</tr>
<tr>
<td>ANEQ 351</td>
<td>Techniques in Therapeutic Riding</td>
<td>Equine assisted activities; therapeutic horseback riding, hippotherapy, driving/vaulting, mental health treatments, programs for youth at risk.</td>
</tr>
<tr>
<td>ANEQ 365</td>
<td>Principles of Teaching Therapeutic Riding</td>
<td>Practical experiences and knowledge of the techniques to be a professional certified therapeutic riding instructor.</td>
</tr>
<tr>
<td>ANEQ 460</td>
<td>Meat Safety</td>
<td>Meat safety; food borne pathogens; hazard analysis critical control points (HACCP) and total quality management (TQM) practices.</td>
</tr>
<tr>
<td>ANEQ 470</td>
<td>Meat Processing Systems</td>
<td>Advanced understanding of the manufacturing, packaging, distribution, storage, and cooking of meat products.</td>
</tr>
<tr>
<td>ANEQ 472</td>
<td>Sheep Systems</td>
<td>Sheep production under farm and ranch conditions; products, breeds, breeding, nutrition, reproduction, and management systems.</td>
</tr>
<tr>
<td>ANEQ 473</td>
<td>Dairy Systems</td>
<td>Integration of nutrition, genetics, physiology, and economics for management decisions of dairy farm operations and production and marketing of milk.</td>
</tr>
<tr>
<td>ANEQ 474</td>
<td>Swine Systems</td>
<td>Production of purebred and commercial swine; breeds, breeding, feeding, marketing, and management.</td>
</tr>
<tr>
<td>ANEQ 475</td>
<td>Travel Abroad-Animal Agriculture</td>
<td>Onsite evaluation of international animal agriculture systems with emphasis on production, marketing, and management.</td>
</tr>
<tr>
<td>ANEQ 476</td>
<td>Feedlot Systems</td>
<td>Feedlot facilities; nutrition; procurement; merchandising; handling; processing cattle; health care; custom feeding; managerial duties.</td>
</tr>
<tr>
<td>ANEQ 478</td>
<td>Beef Systems</td>
<td>Beef production as related to consumer through seedstock segments. Major emphasis on cow-calf management.</td>
</tr>
<tr>
<td>ANEQ 486</td>
<td>Therapeutic Riding Instructor Practicum</td>
<td>Mentor-guided teaching hours to students preparing for the PATH International Instructor examination.</td>
</tr>
<tr>
<td>ANTH 100</td>
<td>Introductory Cultural Anthropology</td>
<td>Human societies and their cultural setting; variation in beliefs, social customs, and technologies; human differences in anthropological terms.</td>
</tr>
<tr>
<td>ANTH 310</td>
<td>Peoples and Cultures of Africa</td>
<td>Sub-Saharan lifestyles including marriage and family, traditional government, religion and magic, ecology and economy, art, music, and literature.</td>
</tr>
<tr>
<td>ANTH 312</td>
<td>Modern Indian Culture and Society</td>
<td>Anthropological contributions to the understanding of contemporary India.</td>
</tr>
<tr>
<td>Course Code</td>
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<tr>
<td>ANTH 314</td>
<td>Southeast Asian Cultures and Societies</td>
<td>Colonial and post-colonial cultures, globalization processes, and changing ethnic and gender identities in Southeast Asian societies.</td>
</tr>
<tr>
<td>ANTH 317</td>
<td>Anthropology of Human Rights</td>
<td>Human rights from the perspective of cultural anthropology through its theoretical and practical dimensions. Contemporary human rights debates within the context of cultural plurality in a globalized world. Engages the intersection between global dynamics and community experiences by addressing the human rights dimensions of refugees and migration, indigenous communities, women and children, health, religious practices, among others.</td>
</tr>
<tr>
<td>ANTH 319</td>
<td>Latin American Peasantries</td>
<td>Sociocultural, economic, and political responses of Latin American peasantries to poverty and global processes.</td>
</tr>
<tr>
<td>ANTH 329</td>
<td>Cultural Change</td>
<td>Cultural change and effects of directed global forces; colonial origins of underdevelopment on small-scale societies.</td>
</tr>
<tr>
<td>ANTH 330</td>
<td>Human Ecology</td>
<td>Roles of technology, economics, social organization, and ideology in human adaptations to and survival in natural and cultural environments.</td>
</tr>
<tr>
<td>ANTH 336</td>
<td>Art and Culture</td>
<td>Art expression is a defining factor in cultural identity and representation in a modern world where geographical and political borders are diminishing.</td>
</tr>
<tr>
<td>ANTH 338</td>
<td>Gender and Anthropology</td>
<td>Theory, themes, and debates in anthropological gender studies, ethnographic survey of women and men cross-culturally.</td>
</tr>
<tr>
<td>ANTH 350</td>
<td>Archaeology of North America</td>
<td>Native American life, tools, architecture, religion, food-getting from cultures of 12,000 years ago or earlier until European contact.</td>
</tr>
<tr>
<td>ANTH 351</td>
<td>Archaeology of Europe and Africa</td>
<td>Human culture, tools, art, religion, social life, subsistence, and paleoecology from 4 million B.C. to 1200 B.C. in the Old World.</td>
</tr>
<tr>
<td>ANTH 359</td>
<td>Colorado Prehistory</td>
<td>Human behavioral responses to environmental diversity, cultural adaptation, Pleistocene and recent climates, anthropogenic environmental change.</td>
</tr>
<tr>
<td>ANTH 411</td>
<td>Indians of South America</td>
<td>Ethnographic and cultural characteristics of South American indigenous groups and the current critical issues they face.</td>
</tr>
<tr>
<td>ANTH 412</td>
<td>Indians of North America</td>
<td>Native American peoples, their cultural variation across the continent, and cultural encounters with colonial expansion.</td>
</tr>
<tr>
<td>ANTH 413</td>
<td>Indigenous Peoples Today</td>
<td>Contemporary cultural and social issues of indigenous peoples around the globe, including North and South American Indians and Australian Aborigines.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
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<tr>
<td>ANTH 414</td>
<td>Development in Indian Country</td>
<td>Critical examination of history, public policy, and tribal strategies for economic development and natural resource management in Indian Country.</td>
</tr>
<tr>
<td>ANTH 416</td>
<td>Gender, Culture, and Health</td>
<td>Examine the role of anthropology in current global health issues paying particular attention to culture and gender.</td>
</tr>
<tr>
<td>ANTH 422</td>
<td>Comparative Legal Systems</td>
<td>Traditional approaches to law, competing concepts of law in the global system, and experiences of minorities in state legal systems.</td>
</tr>
<tr>
<td>ANTH 438</td>
<td>Approaches to Community-Based Development</td>
<td>Explores the structure and practice of community development globally, engaging in critical analysis of different approaches and their impact.</td>
</tr>
<tr>
<td>ANTH 439</td>
<td>Community Mobilization</td>
<td>Structural, social, and psychological barriers that inhibit cooperation and collective action.</td>
</tr>
<tr>
<td>ANTH 446</td>
<td>New Orleans and the Caribbean</td>
<td>New Orleans and the Caribbean connections through colonization, slavery, modernity, legacies of race, gender and class, the expressive arts.</td>
</tr>
<tr>
<td>ANTH 447</td>
<td>Gender Equity in Development</td>
<td>Various forms of women’s power, and potentials for disempowerment within the context of international development.</td>
</tr>
<tr>
<td>ANTH 448</td>
<td>Development and Empowerment</td>
<td>Development as an economic process of wealth accumulation, as well as a socio-political process of empowerment.</td>
</tr>
<tr>
<td>ANTH 450</td>
<td>Hunter-Gatherer Ecology</td>
<td>Development of anthropological method and theory; study of contemporary and prehistoric foraging peoples.</td>
</tr>
<tr>
<td>ANTH 451</td>
<td>Andean Archaeology and Ethnohistory</td>
<td>Prehistory and colonial experiences of native Andean peoples.</td>
</tr>
<tr>
<td>ANTH 452</td>
<td>Archaeology of Mesoamerica</td>
<td>Ancient cultures and civilizations in Middle America.</td>
</tr>
<tr>
<td>ANTH 455</td>
<td>Great Plains Archaeology</td>
<td>Prehistoric people on Great Plains from earliest hunter-gatherers to historic contact; cultural responses to changing conditions.</td>
</tr>
<tr>
<td>ANTH 460</td>
<td>Field Class in Archaeology</td>
<td>Directed fieldwork in local archaeology, site survey, and excavation; recovery, preservation, cataloging, analysis of artificial and skeletal materials.</td>
</tr>
<tr>
<td>ANTH 472</td>
<td>Human Biology</td>
<td>Human biological responses to environmental conditions and constraints including diet, nutrition, disease, climate, culture change, and urbanization</td>
</tr>
<tr>
<td>ANTH 478</td>
<td>Heritage Resource Management</td>
<td>Cultural resource laws and policy; practices commonly employed in management and preservation of these diverse resources.</td>
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<tr>
<td>Course Code</td>
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<td>Description</td>
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<tr>
<td>ANTH 479</td>
<td>International Development Theory and Practic</td>
<td>Contemporary issues in international community and economic development, with practical and theoretical analysis from interdisciplinary perspectives.</td>
</tr>
<tr>
<td>AREC 342</td>
<td>Water Law, Policy, and Institutions</td>
<td>Legal water issues within the context of historical, social and economic development with emphasis on the southwestern United States.</td>
</tr>
<tr>
<td>AREC 346</td>
<td>Economics of Outdoor Recreation</td>
<td>Benefit cost framework in public planning for outdoor recreation, pricing problems, projecting demand, and regional economic development.</td>
</tr>
<tr>
<td>AREC 375</td>
<td>Agricultural Law</td>
<td>Laws, regulations, case decisions affecting ranching and farming in the Rocky Mountain area.</td>
</tr>
<tr>
<td>AREC 405</td>
<td>Agricultural Production Management</td>
<td>Economic principles of agricultural production decisions with linear programming analysis of production choices and farm planning.</td>
</tr>
<tr>
<td>AREC 412</td>
<td>Agricultural Commodities Marketing</td>
<td>Agricultural marketing and agribusiness principles applied to current marketing problems relating to livestock and field and horticultural crops.</td>
</tr>
<tr>
<td>AREC 415</td>
<td>International Agricultural Trade</td>
<td>Agricultural trade patterns and institutions; trade theory with applications to agriculture. Current issues in agricultural trade.</td>
</tr>
<tr>
<td>AREC 428</td>
<td>Agricultural Business Management</td>
<td>Economic analysis, organization, and management practices of agriculture and food industries studied through simulation, case study, computer labs.</td>
</tr>
<tr>
<td>AREC 460</td>
<td>Economics of World Agriculture</td>
<td>Indicators, tools and approaches for agriculture- and natural resource-based economic development in resource dependent countries and communities.</td>
</tr>
<tr>
<td>AREC 478</td>
<td>Agricultural Policy</td>
<td>Formulation and administration of public policies affecting agricultural industries and rural areas in the United States.</td>
</tr>
<tr>
<td>AREC 482B</td>
<td>Study Abroad Italian Culture: Economics of Food and the Envrionment</td>
<td>The historical and current economics of agriculture and natural resources in Florence, Tuscany and Italy. Focus on (1) Italian culture in general; (2) the economic and political history of Florence in particular; and (3) the production and regional economic importance of agricultural products of and natural resources used in central Italy.</td>
</tr>
<tr>
<td>ART 421</td>
<td>Art and the Environment</td>
<td>Interdisciplinary studio/seminar course investigating art's relationship to the environment through readings, field trips, presentations and studio practice.</td>
</tr>
<tr>
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<td>Course Title</td>
<td>Description</td>
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<tr>
<td>ATS 351</td>
<td>Introduction to Weather and Climate Laboratory</td>
<td>Actual weather data, visualization of meteorological phenomena, in-depth discussion of current environmental issues.</td>
</tr>
<tr>
<td>BSPM 102</td>
<td>Insects, Science, and Society</td>
<td>How insects develop, behave, and affect human activity. What every student should know about the most diverse life form on Earth.</td>
</tr>
<tr>
<td>BSPM 201</td>
<td>Weed Management and Control</td>
<td>Basic overview of weeds and weed control.</td>
</tr>
<tr>
<td>BSPM 308</td>
<td>Ecology and Management of Weeds</td>
<td>Classification, characteristics; weed biology and ecology; control by cultural, mechanical, chemical, and biological means; successional management.</td>
</tr>
<tr>
<td>BSPM 310</td>
<td>Understanding Pesticides</td>
<td>Identification, properties, use, labeling, environmental interactions, and application of major classes of pesticides.</td>
</tr>
<tr>
<td>BSPM 361</td>
<td>Elements of Plant Pathology</td>
<td>Diseases of economic plants.</td>
</tr>
<tr>
<td>BSPM 365</td>
<td>Integrated Tree Health Management</td>
<td>Insects and diseases in forest and urban ecosystems. Effects, diagnosis, prevention, and interactions.</td>
</tr>
<tr>
<td>BSPM 415</td>
<td>Pollinator Management in Agroecosystems</td>
<td>Fundamental concepts of pollinator biology and management, sustainable crop-pollinator interactions, regional and global issues on pollinator management and conservation, best management practices for commercially managed pollinators.</td>
</tr>
<tr>
<td>BSPM 450</td>
<td>Molecular Plant-Microbe Interactions</td>
<td>Principles of plant-microbe/insect interactions, physiological and molecular aspects of plant defense, genomics approaches to study plant defense.</td>
</tr>
<tr>
<td>BSPM 451</td>
<td>Integrated Pest Management</td>
<td>Concepts of integrated pest management and the strategies and tactics employed in the application of these concepts.</td>
</tr>
<tr>
<td>BSPM 462</td>
<td>Parasitology and Vector Biology</td>
<td>Protozoa, helminths, and insects and related arthropods of medical importance; systematics, epidemiology, host damage and control.</td>
</tr>
<tr>
<td>BUS 205</td>
<td>Legal and Ethical Issues in Business</td>
<td>Ethical, legal and regulatory issues in the U.S. business environment.</td>
</tr>
<tr>
<td>BUS 220</td>
<td>Ethics in Contemporary Organizations</td>
<td>Examination and application of the ethical principles that are fundamental to managing a successful high-integrity business or organization.</td>
</tr>
<tr>
<td>BZ 332</td>
<td>Introductory Phycology</td>
<td>Evolution, diversity, ecology and global impact of algae</td>
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<tr>
<td>Course Code</td>
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<td>Course Description</td>
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<tr>
<td>BZ 349</td>
<td>Tropical Ecology and Evolution</td>
<td>Broad introduction to terrestrial and aquatic tropical biodiversity and the ecological and evolutionary processes that generate and maintain it.</td>
</tr>
<tr>
<td>BZ 418</td>
<td>Ecology of Infectious Disease</td>
<td>Effects of disease on humans and natural populations</td>
</tr>
<tr>
<td>BZ 420</td>
<td>Evolutionary Medicine</td>
<td>Integration of evolutionary biology with behavior, genetics, and ecology to understand health and disease.</td>
</tr>
<tr>
<td>BZ 425</td>
<td>Molecular Ecology</td>
<td>Introduction to molecular genetic markers for questions in ecology, evolution, behavior, and conservation.</td>
</tr>
<tr>
<td>BZ 450</td>
<td>Plant Ecology</td>
<td>Relation of plants to their environment.</td>
</tr>
<tr>
<td>BZ 471</td>
<td>Stream Biology and Ecology</td>
<td>Biology and ecology of running waters.</td>
</tr>
<tr>
<td>CBE 493</td>
<td>Professional Development Seminar</td>
<td>Topics in engineering professional development, including ethics, role of engineers in society, and life-long learning.</td>
</tr>
<tr>
<td>CHEM 103</td>
<td>Chemistry in Context</td>
<td>Chemistry, chemical principles from more conceptual, less mathematical perspective; how chemical substances, chemical reactions affect our daily lives.</td>
</tr>
<tr>
<td>CIVE 102</td>
<td>Introduction: Civil/Environmental Engineering</td>
<td>Civil engineering profession, computer applications and programming related to civil engineering; introduction to surveying.</td>
</tr>
<tr>
<td>CIVE 203</td>
<td>Engineering Systems and Decision Analysis</td>
<td>Civil engineering infrastructure systems, numerical and decision analysis techniques, applications of risk analysis.</td>
</tr>
<tr>
<td>CIVE 303</td>
<td>Infrastructure and Transportation Systems</td>
<td>Principles of infrastructure systems, transportation systems, applications of spatial data and GIS, project management and engineering economy.</td>
</tr>
<tr>
<td>CIVE 322</td>
<td>Basic Hydrology</td>
<td>Hydrologic cycle, soil moisture, groundwater, runoff processes, applications in water resources and environmental engineering.</td>
</tr>
<tr>
<td>CIVE 401</td>
<td>Hydraulic Engineering</td>
<td>Basic principles of fluid mechanics applied to practical problems in hydraulic engineering.</td>
</tr>
<tr>
<td>CIVE 423</td>
<td>Groundwater Engineering</td>
<td>Development of groundwater resources; origin, movement, distribution of water below ground surface.</td>
</tr>
<tr>
<td>CIVE 424</td>
<td>Modern Gas and Oil</td>
<td>Introduction to opportunities and challenges of modern gas and oil development, including synergies with other energy sources.</td>
</tr>
<tr>
<td>CIVE 425</td>
<td>Soil and Water Engineering</td>
<td>Control of the soil-water-plant medium for optimum plant growth and environmental protection</td>
</tr>
<tr>
<td>CIVE 437</td>
<td>Wastewater Treatment Facility Design</td>
<td>Design concepts and principles for wastewater treatment systems and unit processes, principles of treatment plant operation.</td>
</tr>
<tr>
<td>CIVE 440</td>
<td>Nonpoint Source Pollution</td>
<td>Principles, processes, impacts, and control of nonpoint source pollution of surface and groundwater.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Description</td>
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<tr>
<td>CIVE 441</td>
<td>Water Quality Analysis and Treatment</td>
<td>Physical, chemical and biological methods for the characterization of waters and wastewaters.</td>
</tr>
<tr>
<td>CIVE 455</td>
<td>Applications in Geotechnical Engineering</td>
<td>Geotechnical engineering applications of earth retaining structures, foundations, dams and embankments, geosynthetics, waste containment systems.</td>
</tr>
<tr>
<td>CO 301B</td>
<td>Writing in the Disciplines: Sciences</td>
<td>Learning writing strategies for addressing general audiences in sciences.</td>
</tr>
<tr>
<td>CO 301C</td>
<td>Writing in the Disciplines: Social Sciences</td>
<td>Learning writing strategies for addressing general audiences in social sciences.</td>
</tr>
<tr>
<td>CON 465</td>
<td>Construction Management Professional Practice</td>
<td>Professional practice using an understanding of the contractual and working relationships among all participants in the design/construction process.</td>
</tr>
<tr>
<td>DM 272</td>
<td>Consumers in the Marketplace</td>
<td>Analysis and evaluation of consumers in the marketplace as applied to merchandising.</td>
</tr>
<tr>
<td>DM 470A-B</td>
<td>International Design and Merchandising</td>
<td>Historical, cultural, and business aspects of international design and merchandising in selected countries.</td>
</tr>
<tr>
<td>E 142</td>
<td>Reading Without Borders</td>
<td>Authors from a range of international, cross-national, cultural, and ethnic backgrounds focusing on themes of immigration, exile, or education.</td>
</tr>
<tr>
<td>E 238</td>
<td>20th-Century Fiction</td>
<td>20th-century fiction chosen for its relevance to global and cultural awareness.</td>
</tr>
<tr>
<td>E 339</td>
<td>Literature of the Earth</td>
<td>Non-fiction, fiction, and poetry on landscape, climate, animality, ecology, place.</td>
</tr>
<tr>
<td>E 370</td>
<td>American Literature in Cultural Contexts</td>
<td>American literature in social, political, economic, aesthetic, intellectual, and multimedia contexts.</td>
</tr>
<tr>
<td>E 433</td>
<td>Literatures of the American West</td>
<td>Relationships between places, environments, cultures, and literature in the American West.</td>
</tr>
<tr>
<td>ECON 211</td>
<td>Gender in the Economy</td>
<td>Role gender plays in economies; the way gender affects economic outcomes for individuals and societies.</td>
</tr>
<tr>
<td>ECON 212</td>
<td>Racial Inequality and Discrimination</td>
<td>Economic inequality between Afro-Americans and Euro-Americans. Debates about causes, consequences, and remedies.</td>
</tr>
<tr>
<td>ECON 310</td>
<td>Poverty and the Welfare State</td>
<td>Description and analysis of US poverty; the &quot;underclass&quot;; feminization of poverty; working poor; the welfare state.</td>
</tr>
<tr>
<td>ECON 325</td>
<td>Health Economics</td>
<td>Economic analysis of health care markets, health insurance markets, and public policy regarding health care.</td>
</tr>
<tr>
<td>Course Code</td>
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<td>Description</td>
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<tr>
<td>ECON 332</td>
<td>International Political Economy</td>
<td>Theories on relations between international politics and economics. Policy implications of different theories and case studies.</td>
</tr>
<tr>
<td>ECON 340</td>
<td>Introduction: Economics of Natural Resources</td>
<td>Concepts, theories, institutions; analytical methods for economic evaluation of alternative resource use patterns and land use plans.</td>
</tr>
<tr>
<td>ECON 370</td>
<td>Comparative Economic Systems</td>
<td>Place of the economy in different societies; nature and evolution of capitalism; crisis of command economies and capitalist restoration.</td>
</tr>
<tr>
<td>ECON 404</td>
<td>Macroeconomic Policy</td>
<td>Alternative macroeconomic policies, policy coordination; application to current macroeconomic problems, policies, proposals.</td>
</tr>
<tr>
<td>ECON 410</td>
<td>Labor Economics</td>
<td>Capital/labor relationship; supply, demand of labor; wage determination; role of unions; unemployment and instability; structure of modern working class.</td>
</tr>
<tr>
<td>ECON 440</td>
<td>International Economics I</td>
<td>Theory of international trade; payments, commercial policies, and economic integration.</td>
</tr>
<tr>
<td>ECON 460</td>
<td>Economic Development</td>
<td>Economic problems of underdeveloped nations.</td>
</tr>
<tr>
<td>ESS 330</td>
<td>Quantitative Reasoning for Ecosystem Science</td>
<td>Understanding diverse approaches for using data and models to understand complex ecological systems.</td>
</tr>
<tr>
<td>ESS 411</td>
<td>Earth Systems Ecology</td>
<td>Earth as a system, stressing ecological interactions among energy, water, and biogeochemistry.</td>
</tr>
<tr>
<td>ETST 240</td>
<td>Native American Cultural Experience</td>
<td>Exploration of Native lives and expressions through examination of Native architecture, art, music, film, activism, and literature.</td>
</tr>
<tr>
<td>ETST 404</td>
<td>Race Formation in the United States</td>
<td>Concept of race as a social construct in the shaping of U.S. character, values, and institutions.</td>
</tr>
<tr>
<td>F 311</td>
<td>Forest Ecology</td>
<td>Relationships of ecological concepts to the dynamics of forest ecosystems.</td>
</tr>
<tr>
<td>F 322</td>
<td>Economics of the Forest Environment</td>
<td>Economic principles and techniques applied to forested environments.</td>
</tr>
<tr>
<td>F 324</td>
<td>Fire Effects and Adaptations</td>
<td>Introduction to fire ecology including fire history, ecosystem effects, and organism responses.</td>
</tr>
<tr>
<td>F 325</td>
<td>Silviculture</td>
<td>Principles of silviculture and their application to major forest types of United States.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Description</td>
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<tr>
<td>F 421</td>
<td>Forest Stand Management</td>
<td>Forest management plan preparation: forest condition and health assessment; evaluation of silvicultural treatments; implementation and monitoring.</td>
</tr>
<tr>
<td>F 466</td>
<td>Urban and Community Forestry</td>
<td>Policies and management of publicly and privately owned community forests in urbanized areas.</td>
</tr>
<tr>
<td>F 466</td>
<td>Urban and Community Forestry</td>
<td>Policies and management of publicly and privately owned community forests in urbanized areas.</td>
</tr>
<tr>
<td>FSHN 125</td>
<td>Food and Nutrition in Health</td>
<td>Nutritional quality and safety of food related to human health.</td>
</tr>
<tr>
<td>FSHN 150</td>
<td>Survey of Human Nutrition</td>
<td>Basic nutrition principles and concepts; their application to personal health and interactions with societal and environmental issues.</td>
</tr>
<tr>
<td>FSHN 450</td>
<td>Medical Nutrition Therapy</td>
<td>Use of nutrition therapy in the treatment of acute conditions and chronic disease states.</td>
</tr>
<tr>
<td>FSHN 451</td>
<td>Community Nutrition</td>
<td>Influences on nutritional status, assessment of nutrition problems and needs, planning and evaluation of nutrition intervention programs.</td>
</tr>
<tr>
<td>FTEC 110</td>
<td>Food-From Farm to Table</td>
<td>Commercial food processing, related to preservation and enhancing of food quality, safety, and value.</td>
</tr>
<tr>
<td>FTEC 400</td>
<td>Food Safety</td>
<td>Safety of human food emphasizing safe production, processing, marketing, preparation, consumption, and regulations.</td>
</tr>
<tr>
<td>FW 111</td>
<td>Basic Outdoor Skills in FWCB.</td>
<td>Basic outdoor skills crucial for FWCB and outdoor novices. History of wildlife conservation and reasons for declining outdoor participation. Required field trips.</td>
</tr>
<tr>
<td>FW 204</td>
<td>Introduction to Fishery Biology</td>
<td>Exposure to sampling techniques, agencies, and topics in fishery biology careers.</td>
</tr>
<tr>
<td>FW 300</td>
<td>Biology and Diversity of Fishes</td>
<td>Biology of fishes: anatomy, taxonomy, physiology, behavior, ecology, evolution, and zoogeography.</td>
</tr>
<tr>
<td>FW 301</td>
<td>Ichthyology Laboratory</td>
<td>Anatomy, taxonomy, evolution, and ecology of North American freshwater fishes. Field trip required.</td>
</tr>
<tr>
<td>FW 370</td>
<td>Design of Fish and Wildlife Projects</td>
<td>Design, analysis, and evaluation of wildlife projects; lab exercises in design and data analysis; preparation and presentation of project proposals.</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
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<tr>
<td>FW 373A</td>
<td>Travel Abroad- Wildlife Conservation</td>
<td>Study tour of various overseas ecosystems and natural resources conservation programs; discussions with local ecologists/managers.</td>
</tr>
<tr>
<td>FW 375</td>
<td>Field Wildlife Studies</td>
<td>Field trip to see wildlife management and habitats and to discuss problems and practices with professional ecologists and resources managers.</td>
</tr>
<tr>
<td>FW 400</td>
<td>Conservation of Fish in Aquatic Ecosystems</td>
<td>Ecological processes that create habitat and biotic template for fish in aquatic ecosystems; human effects; strategies for conserving fishes.</td>
</tr>
<tr>
<td>FW 401</td>
<td>Fishery Science</td>
<td>Theory, philosophy, and applications for study and management of fishery resources.</td>
</tr>
<tr>
<td>FW 402</td>
<td>Fish Culture</td>
<td>Principles and practices to produce food, bait, and sport fishes.</td>
</tr>
<tr>
<td>FW 405</td>
<td>Fish Physiology</td>
<td>Physiological ecology of fishes; functional adaptations and adjustments used to cope with environmental and physiological states.</td>
</tr>
<tr>
<td>FW 455</td>
<td>Principles of Conservation Biology</td>
<td>Review of efforts to study and conserve biological diversity, focused on fish and wildlife populations.</td>
</tr>
<tr>
<td>FW 467</td>
<td>Wildlife Disease Ecology</td>
<td>Ecological, epidemiological, and evolutionary principles of disease in fish and wildlife populations; contemporary issues in disease ecology.</td>
</tr>
<tr>
<td>FW 468</td>
<td>Wild Bird Management</td>
<td>Ecology and management of game, pest, and rare bird populations and nongame bird communities.</td>
</tr>
<tr>
<td>FW 469</td>
<td>Conservation and Management of Large Mammals</td>
<td>Principles of behavior, ecology, population dynamics, and conservation related to large mammals. Required field trips.</td>
</tr>
<tr>
<td>FW 471</td>
<td>Wildlife Data Collection and Analysis</td>
<td>Analysis methods used in wildlife management and research; adaptive resource management with emphasis on learning through field and computer labs.</td>
</tr>
<tr>
<td>FW 472</td>
<td>Issues in Animal Conservation and Management</td>
<td>Current and emerging issues in fish and wildlife conservation and management at the state, national and global scales.</td>
</tr>
<tr>
<td>FW 475</td>
<td>Conservation Decision Analysis</td>
<td>Structured approaches to conservation and management of vertebrates; articulating objectives, developing management options, and predicting outcomes.</td>
</tr>
<tr>
<td>FW 477</td>
<td>Wildlife Habitat Use and Management</td>
<td>Wildlife habitat evaluation, classification, and improvement; analysis of habitat use patterns; planning and implementation of management plans.</td>
</tr>
<tr>
<td>GEOL 401</td>
<td>Geology of the Rocky Mountain Region</td>
<td>Field course; geology of the local Rocky Mountain region.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Description</td>
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<tr>
<td>GEOL 424</td>
<td>Modern Gas and Oil</td>
<td>Introduction to opportunities and challenges of modern gas and oil development, including synergies with other energy sources.</td>
</tr>
<tr>
<td>GEOL 436</td>
<td>Geology Summer Field Course</td>
<td>Geologic mapping, measuring sections, interpreting geologic history in Colorado. Required comprehensive reports, geologic maps, and cross sections.</td>
</tr>
<tr>
<td>GEOL 452</td>
<td>Hydrogeology</td>
<td>Interaction of water and geologic materials; surface and groundwater; quantitative analysis and geologic effects on quality and flow of groundwater.</td>
</tr>
<tr>
<td>GR 100</td>
<td>Introduction to Geography</td>
<td>Major geographic themes applied to selected regions; physical environment, human-land relationships, regional analysis.</td>
</tr>
<tr>
<td>GR 210</td>
<td>Physical Geography</td>
<td>Energy, mass budget, and human impacts on atmosphere, hydrosphere, and continental land surfaces.</td>
</tr>
<tr>
<td>GR 303</td>
<td>Mountain Geography</td>
<td>The physical and human dimensions of mountains. Examples from mountains around the world with case studies from Colorado.</td>
</tr>
<tr>
<td>GR 320</td>
<td>Cultural Geography</td>
<td>Geographic analysis of cultural phenomena, elements emphasizing human-land relationships and spatial patterns of agriculture, cities, language, religion.</td>
</tr>
<tr>
<td>GR 345</td>
<td>Geography of Hazards</td>
<td>Causes, effects, distributional patterns, and human adjustments to environmental hazards.</td>
</tr>
<tr>
<td>GR 348</td>
<td>Biogeography</td>
<td>Species distribution of plants and animals in relation to earth history and environments, evolution, and ecology.</td>
</tr>
<tr>
<td>GR 448</td>
<td>Forest Biogeography and Climate Change</td>
<td>Forest adaptation and conservation in relation to global change with a focus on climate change.</td>
</tr>
<tr>
<td>HDFS 320</td>
<td>Cognitive and Language Development</td>
<td>Cognitive and language development from birth to adulthood; including biological, social, and cultural influences.</td>
</tr>
<tr>
<td>HES 345</td>
<td>Population Health and Disease Prevention</td>
<td>Causes of disease throughout the lifespan and interventions designed to prevent disease.</td>
</tr>
<tr>
<td>HES 410</td>
<td>Bioethics: Concepts and Controversies</td>
<td>Origins of bioethics and analysis of cases/controversies in contemporary bioethics.</td>
</tr>
<tr>
<td>HES 476</td>
<td>Exercise and Chronic Disease</td>
<td>Interaction of physical activity with pathophysiology and treatment of chronic diseases and conditions.</td>
</tr>
<tr>
<td>HIST 352</td>
<td>American West Since 1900</td>
<td>Social, political, economic, environmental developments and intercultural relationships in trans-Mississippi West since 1900.</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Description</td>
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<tr>
<td>HIST 463</td>
<td>Science and Technology in Modern History</td>
<td>Impact of science and technology on industry, agriculture, medicine, education, etc. Issues in science and technology policy.</td>
</tr>
<tr>
<td>HIST 476</td>
<td>History of America's National Parks</td>
<td>The national park system and its development from concept to design to implementation.</td>
</tr>
<tr>
<td>HIST 478</td>
<td>Heritage Resource Management</td>
<td>Cultural resource laws and policy; practices commonly employed in the management and preservation of these diverse resources.</td>
</tr>
<tr>
<td>HORT 100</td>
<td>Horticultural Science</td>
<td>Principles of plant science and related disciplines as the base and context for the introduction of horticultural practices.</td>
</tr>
<tr>
<td>HORT 221</td>
<td>Landscape Plants</td>
<td>Identification, landscape features, cultural requirements, and landscape use of coniferous and deciduous trees and shrubs, vines, and evergreens xeriscaping.</td>
</tr>
<tr>
<td>HORT 310</td>
<td>Greenhouse Management</td>
<td>Design and use of enclosed structures to manipulate controlled environments, effects on growth as applied to crops, production, and marketing crops.</td>
</tr>
<tr>
<td>HORT 345</td>
<td>Diagnosis and Treatment in Organic Fields</td>
<td>Field experience in diagnosis of pest and nutrient problems on organic farms and development of treatment recommendations.</td>
</tr>
<tr>
<td>HORT 367</td>
<td>Landscape Irrigation</td>
<td>Practical design of sprinkler and trickle irrigation systems for commercial and residential landscapes.</td>
</tr>
<tr>
<td>HORT 370</td>
<td>Landscape Irrigation</td>
<td>Necessary skills to design and manage irrigation systems used in the landscape industry.</td>
</tr>
<tr>
<td>HORT 377</td>
<td>Horticultural Methods for Therapy Programs</td>
<td>Horticultural methods for health care and human service settings, including indoor and outdoor growing techniques, management and plant selection.</td>
</tr>
<tr>
<td>HORT 401</td>
<td>Medicinal and Value-Added Uses of Plants</td>
<td>Chemical, biochemical and ethnobotanical perspective on the medicinal and value-added uses of plants.</td>
</tr>
<tr>
<td>HORT 424</td>
<td>Topics in Organic Agriculture</td>
<td>Examination of issues specific to organic food production systems and marketing.</td>
</tr>
<tr>
<td>HORT 454</td>
<td>Horticulture Crop Production and Management</td>
<td>Production and management of horticulture crops.</td>
</tr>
<tr>
<td>HORT 466</td>
<td>Community Forestry</td>
<td>Policies and management of publicly and privately owned community forests in urbanized areas.</td>
</tr>
<tr>
<td>IE 450</td>
<td>International Social Welfare and Development</td>
<td>Framework of social welfare and development in international area; social need with focus on cultures/countries in transition.</td>
</tr>
<tr>
<td>IE 470</td>
<td>Women and Development</td>
<td>Research and policy issues related to women in developing countries.</td>
</tr>
<tr>
<td>Course Code</td>
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<td>Description</td>
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<tr>
<td>IE 471</td>
<td>Children and Youth in Global Context</td>
<td>Global issues affecting children and youth are examined in cultural context.</td>
</tr>
<tr>
<td>IE 472</td>
<td>Education for Global Peace</td>
<td>Peacekeeping, peacemaking and peace-building on micro and macro levels, and education's role in them, as key components for sustaining global peace.</td>
</tr>
<tr>
<td>IE 479</td>
<td>International Development Theory and Practice</td>
<td>Contemporary issues in international community and economic development with practical and theoretical analysis from interdisciplinary perspectives.</td>
</tr>
<tr>
<td>INTD 340</td>
<td>Interior Materials and Finishes</td>
<td>Analysis of materials and resources for interiors.</td>
</tr>
<tr>
<td>INTD 350</td>
<td>Codes-Health and Safety</td>
<td>Health and safety issues in interior design, including codes, regulations, and universal design.</td>
</tr>
<tr>
<td>INTD 476</td>
<td>Interior Design Project</td>
<td>Large scale projects representing research-based design solutions, illustrating synthesis and analysis of entry level concepts, portfolio development.</td>
</tr>
<tr>
<td>IU 150</td>
<td>Diverse Students in Higher Education</td>
<td>Issues surrounding educational opportunity and social mobility through direct mentoring with high school students.</td>
</tr>
<tr>
<td>IU 171</td>
<td>A Call to Lead II: Social Change Model</td>
<td>Social change model of leadership development.</td>
</tr>
<tr>
<td>JTC 316</td>
<td>Multiculturalism and the Media</td>
<td>Media and multiculturalism with emphasis on race, ethnicity, and other protected groups.</td>
</tr>
<tr>
<td>JTC 411</td>
<td>Media Ethics and Issues</td>
<td>Professional ethics, issues of media performance and of the relation of media systems to the social systems.</td>
</tr>
<tr>
<td>JTC 412</td>
<td>International Mass Communication</td>
<td>Media communication systems, their roles throughout the world; news flow; propaganda in national development; role of foreign correspondents.</td>
</tr>
<tr>
<td>JTC 461</td>
<td>Writing about Science, Health, and Environment</td>
<td>Writing about science, health, and the environment for lay audiences from a journalistic perspective.</td>
</tr>
<tr>
<td>LAND 241</td>
<td>Environmental Analysis</td>
<td>Exploration and understanding of natural and cultural landscapes through analytical simulation techniques.</td>
</tr>
<tr>
<td>LAND 360</td>
<td>Basic Landscape Design and Construction</td>
<td>Site programming analysis, design, and construction, including skill development in specifying earthwork, drainage, and vegetative composition.</td>
</tr>
<tr>
<td>LAND 364</td>
<td>Design and Nature</td>
<td>Computer-aided processes for siting, organizing, and evaluating cultural activities within ecologically fragile, landscape-scale environments.</td>
</tr>
<tr>
<td>LAND 368</td>
<td>Landscape Irrigation and Water Conservation</td>
<td>Practical approaches and methods of irrigation, water conservation, and water management in the designed landscape.</td>
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<tr>
<td>Course Code</td>
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<td>Description</td>
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<tr>
<td>LAND 444</td>
<td>Ecology of Landscapes</td>
<td>Theories, methods, and practices for interpreting, describing, and representing natural and human modified landscapes.</td>
</tr>
<tr>
<td>LAND 454</td>
<td>Landscape Field Studies</td>
<td>Field observation of spatial and temporal landscape patterns resulting from natural and cultural processes and interactions.</td>
</tr>
<tr>
<td>LEAP 200</td>
<td>Advocacy in the Visual and Performing Arts</td>
<td>The importance of the role of advocacy for the arts, issues of censorship, public funding, arts education, and artists' advocacy through the arts.</td>
</tr>
<tr>
<td>LEAP 300</td>
<td>Arts Outreach and Community Engagement</td>
<td>Research, development and production of arts outreach projects; team projects for community engagement.</td>
</tr>
<tr>
<td>LIFE 320</td>
<td>Ecology</td>
<td>Interrelationships among organisms and their environments using conceptual models and quantitative approaches.</td>
</tr>
<tr>
<td>MATH 348</td>
<td>Theory of Population and Evolutionary Ecology</td>
<td>Principles and methods for building, analyzing, and interpreting mathematical models of ecological and evolutionary problems in biology.</td>
</tr>
<tr>
<td>MECH 303</td>
<td>Energy Engineering</td>
<td>Energy generation (coal, oil, natural gas, solar, wind, geothermal, hydropower, tidal, biofuel, nuclear...), conversion, distribution, storage, efficiency.</td>
</tr>
<tr>
<td>MECH 408</td>
<td>Applied Engineering Economy</td>
<td>The basic principles and calculations of engineering economy with application to real problems, including energy and the environment.</td>
</tr>
<tr>
<td>MECH 463</td>
<td>Building Energy Systems</td>
<td>Comfort, psychrometrics, loads, solar radiation, heating and cooling system design, transport, solar system design, economics.</td>
</tr>
<tr>
<td>MGT 430</td>
<td>Leadership and Social Responsibility</td>
<td>Social responsiveness of managers as they face expectations in the firm’s internal and external environment.</td>
</tr>
<tr>
<td>MGT 476</td>
<td>Negotiation and Conflict Management</td>
<td>Principles and practices of negotiation and conflict management including bargaining as a social and managerial activity.</td>
</tr>
<tr>
<td>MIP 432</td>
<td>Microbial Ecology</td>
<td>Principles of microorganism interaction with their living and non-living environments: implication for the environment, plants and animals.</td>
</tr>
<tr>
<td>MKT 365</td>
<td>International Marketing</td>
<td>Analysis of international markets and development of strategic and tactical options for marketing across national boundaries.</td>
</tr>
<tr>
<td>NR 220</td>
<td>Natural Resources Ecology and Measurements</td>
<td>Ecology of Rocky Mountain ecosystems. Basic measurements and integrated management of natural resources. Pingree Park Campus.</td>
</tr>
<tr>
<td>NR 300</td>
<td>Biological Diversity</td>
<td>Biological diversity examined in context of species; extinction. Principles, techniques of conservation biology utilized to understand and resolve issues.</td>
</tr>
<tr>
<td>Course Code</td>
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<tr>
<td>NR 319</td>
<td>Geospatial Applications in Natural Resources</td>
<td>Introduction to global positioning systems (GPS), geographic information systems (GIS) and remote sensing (RS) with natural resource applications.</td>
</tr>
<tr>
<td>NR 323</td>
<td>Remote Sensing and Image Interpretation</td>
<td>Remote sensing systems and applications; characteristics of photographic, scanner and radar images; imagery interpretation.</td>
</tr>
<tr>
<td>NR 326</td>
<td>Forest Vegetation Management</td>
<td>Ecologically-based management to restore and manage forests.</td>
</tr>
<tr>
<td>NR 330</td>
<td>Human Dimensions in Natural Resources</td>
<td>Social, political, cultural, and economic considerations in natural resource management.</td>
</tr>
<tr>
<td>NR 370</td>
<td>Coastal Environmental Ecology</td>
<td>Sensitive and complex coastal area environments and the effects of accelerated change on and offshore caused by human activities.</td>
</tr>
<tr>
<td>NR 382 A</td>
<td>Social-Ecological Field Methods</td>
<td>Social and ecological field methods commonly used in natural resource management. Study abroad in Kenya</td>
</tr>
<tr>
<td>NR 382 B</td>
<td>Social-Ecological Field Methods</td>
<td>Social and ecological field methods commonly used in natural resource management. Study abroad in Belize</td>
</tr>
<tr>
<td>NR 383</td>
<td>U.S. Travel-Integrated Resource Management</td>
<td>Evaluation of integrated ranch management decision alternatives in conjunction with professional resource managers.</td>
</tr>
<tr>
<td>NR 387</td>
<td>Internship I</td>
<td>Course prepares students for field experience in natural resources management.</td>
</tr>
<tr>
<td>NR 400</td>
<td>Public Communication in Natural Resources</td>
<td>Examine how public communication shapes opinion and understanding of natural resource issues. Combines study of key communication concepts with experiential projects, including critique of a public hearing and creation of media products. Through readings, case studies, and assignments, analyze approaches for effective public communication. Design brochures, websites, videos, etc., eventually collaborating in teams with real-life ‘clients’.</td>
</tr>
<tr>
<td>NR 401</td>
<td>Techniques in Public Relations</td>
<td>Effective communications methods related to natural resource professions; preparation of graphics, organization of programs using slide show format.</td>
</tr>
<tr>
<td>NR 420</td>
<td>Integrated Ecosystem Management</td>
<td>Natural resource management exercises; quantitative integration techniques, group dynamics.</td>
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<tr>
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<tr>
<td>NR 433</td>
<td>Special Uses Management</td>
<td>Authorities, application, and administration; agriculture, aviation, community, public information, industrial, water, treasure trove, and cultural uses.</td>
</tr>
<tr>
<td>NR 434</td>
<td>Linear Uses and FERC Licenses</td>
<td>Rights-of-way authorities and management; road and trail grants and easements; communication uses; Federal Energy Regulatory Commission licenses.</td>
</tr>
<tr>
<td>NR 435</td>
<td>Valuation and Landownership Adjustment</td>
<td>Authorities, coordination, valuation, title; land purchase, donation, exchange, interchange, transfers, sales, condemnation, and negotiation.</td>
</tr>
<tr>
<td>NR 436</td>
<td>Right-of-Way Acquisition</td>
<td>Need, authority, policy, planning, acquiring, negotiating, and managing rights-of-way; cost-share agreements.</td>
</tr>
<tr>
<td>NR 440</td>
<td>Land Use Planning</td>
<td>Conservation planning method applications that integrate natural resources by conservation organizations and government agencies.</td>
</tr>
<tr>
<td>NR 460</td>
<td>Wilderness Management</td>
<td>Management of wilderness in the U.S. National Wilderness Preservation System and equivalent international wildlands.</td>
</tr>
<tr>
<td>NR 479</td>
<td>Restoration Case Studies</td>
<td>Analysis of ecological restoration projects. Required field trips one week prior to first day of semester.</td>
</tr>
<tr>
<td>NRRT 231</td>
<td>Principles-Parks/Protected Area Management</td>
<td>Provide a broad but comprehensive understanding of the history, challenges, and practices of parks and protected areas management.</td>
</tr>
<tr>
<td>NRRT 262</td>
<td>Principles of Environmental Communication</td>
<td>Principles of environmental communication, education, and interpretation for managing natural and cultural resources.</td>
</tr>
<tr>
<td>NRRT 270</td>
<td>Principles of Natural Resource Tourism</td>
<td>Tourism and private commercial outdoor recreation industry in America.</td>
</tr>
<tr>
<td>NRRT 301</td>
<td>Conservation Leadership</td>
<td>Approaches to conservation leadership.</td>
</tr>
<tr>
<td>NRRT 320</td>
<td>International Issues-Recreation and Tourism</td>
<td>History, development, and preservation of international parks, preserves, tourist and historical sites.</td>
</tr>
<tr>
<td>NRRT 321</td>
<td>Travel Abroad-Marine Ecotourism-Bahamas</td>
<td>Environmental and socio-cultural aspects of marine ecotourism in the Bahamas.</td>
</tr>
<tr>
<td>NRRT 330</td>
<td>Social Aspects of Natural Resource Management</td>
<td>Review social science concepts and research important to the way humans use and manage natural resources. Using lectures and readings on social theory and management frameworks, dissect current natural resource management issues. Case study presentations, exercises, and discussions will connect various social science approaches and theoretical frameworks to their natural resource applications.</td>
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<tr>
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<tr>
<td>NRRT 340</td>
<td>Principles in Conservation Planning and Mgmt</td>
<td>Social, economic, legal, and ecological concepts that shape planning and management frameworks within conservation.</td>
</tr>
<tr>
<td>NRRT 400</td>
<td>Environmental Governance</td>
<td>Theory and practice of prevalent environmental governance approaches in diverse social and environmental contexts.</td>
</tr>
<tr>
<td>NRRT 401</td>
<td>Collaborative Conservation</td>
<td>Guiding principles and practices for effectively engaging stakeholders in conservation issues and management.</td>
</tr>
<tr>
<td>NRRT 431</td>
<td>Protected Areas, Working Lands, Livelihoods</td>
<td>Management practices of protected areas and working lands that work at the interface of ecological, human, and economic dimensions.</td>
</tr>
<tr>
<td>NRRT 442</td>
<td>Tourism Planning</td>
<td>Examines the relationship among tourists, tourist developments and the planning of tourist attractions and services. Focuses on the planning of tourist resources and programs within a geographic region, as well as at a destination and site level. Planning tools and design concepts are reviewed and analyzed. A regional strategic planning process is applied to the development of a regional tourism plan in Colorado.</td>
</tr>
<tr>
<td>NRRT 473</td>
<td>Ski Area Management</td>
<td>Ski area management; history and trends, ski area operations, human resource management, environmental issues, liability, resort planning and design.</td>
</tr>
<tr>
<td>OT 355</td>
<td>Handicapped Individual in Society</td>
<td>Description and exploration of disabling conditions; review of support systems including legal and financial implications.</td>
</tr>
<tr>
<td>PHIL 103</td>
<td>Moral and Social Problems</td>
<td>Contemporary ethical issues in the United States, such as abortion, euthanasia, and genetic engineering.</td>
</tr>
<tr>
<td>PHIL 104</td>
<td>Values, Culture, and Food Animal Agriculture</td>
<td>Evolution of the social values and cultural understandings shaping modern animal agriculture; current problems in animal agriculture.</td>
</tr>
<tr>
<td>PHIL 130</td>
<td>Bioethics and Society</td>
<td>Major issues in bioethics.</td>
</tr>
<tr>
<td>PHIL 205</td>
<td>Introduction to Ethics</td>
<td>Problems and theories concerning values and standards, right action, and the good life.</td>
</tr>
<tr>
<td>PHIL 240</td>
<td>Philosophies of Peace and Nonviolence</td>
<td>Classic and contemporary religious and philosophical work on peace and nonviolence.</td>
</tr>
<tr>
<td>PHIL 325</td>
<td>Philosophy of Natural Science</td>
<td>Structure of theories; basic concepts and assumptions; methods of explanation and confirmation; emphasis varies between physical and life sciences.</td>
</tr>
<tr>
<td>PHIL 330</td>
<td>Agricultural Ethics</td>
<td>Basic concepts in ethics and their application to agriculture and the food system.</td>
</tr>
<tr>
<td>POLS 232</td>
<td>International Relations</td>
<td>Basic concepts and approaches to international relations.</td>
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<tr>
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<tr>
<td>POLS 364</td>
<td>Air, Climate, and Energy Policy Analysis</td>
<td>Discussion and analysis of energy use and its impact on the economy and environment with an emphasis on future policy.</td>
</tr>
<tr>
<td>POLS 405</td>
<td>Race and Ethnicity in U.S. Politics</td>
<td>Relationships among American racial/ethnic groups, political attitudes, behavior; race and ethnicity roles in elections; implications for public policy.</td>
</tr>
<tr>
<td>POLS 431</td>
<td>International Law</td>
<td>Rules and obligations for conduct of relations among states and other international entities.</td>
</tr>
<tr>
<td>POLS 433</td>
<td>International Organization</td>
<td>History, development, structure, process, and activity of selected public international organizations.</td>
</tr>
<tr>
<td>POLS 435</td>
<td>United States Foreign Policy</td>
<td>Institutions, responsibilities, processes, and issues in formulation and execution of U.S. foreign policy.</td>
</tr>
<tr>
<td>POLS 443</td>
<td>Comparative Social Movements</td>
<td>Reviews major works dealing with conceptual and theoretical foundations of social movements and examines a number of cases across regions.</td>
</tr>
<tr>
<td>POLS 460</td>
<td>Public Policy Process</td>
<td>Explanations of U.S. policy formation, implementation, and impact.</td>
</tr>
<tr>
<td>RS 351</td>
<td>Wildland Ecosystems in a Changing World</td>
<td>Understanding and conserving non-forested wildland ecosystems, processes, and services under changing environmental conditions.</td>
</tr>
<tr>
<td>RS 432</td>
<td>Rangeland Measurements and Monitoring</td>
<td>Vegetation sampling and field measurements emphasizing applications for monitoring and adaptive management.</td>
</tr>
<tr>
<td>RS 452</td>
<td>Rangeland Herbivore Ecology and Management</td>
<td>Ecology and management of large ungulate herbivores including consumer functions at organismal and ecosystem levels.</td>
</tr>
<tr>
<td>RS 471</td>
<td>Rangeland Planning and Grazing Management</td>
<td>Definition of grazing management, grazing systems. Synthesis of animal, plant responses to grazing management. Structure, function of rangeland planning.</td>
</tr>
<tr>
<td>RS 472</td>
<td>Rangeland Ecosystem Planning</td>
<td>Range allotment, ranch and restoration planning.</td>
</tr>
<tr>
<td>RS 478</td>
<td>Ecological Restoration</td>
<td>Analysis of environmental factors influencing restoration of disturbed lands and practices for successful restoration of disturbed ecosystems.</td>
</tr>
<tr>
<td>SOC 192</td>
<td>Civic Culture and Social Responsibility</td>
<td>Erosion of civility in society with particular emphasis on civic culture on the university campus.</td>
</tr>
<tr>
<td>SOC 323</td>
<td>Sociology of Environmental Cooperation and Conflict</td>
<td>Roles of government and civil society in creating environmental problems and in developing effective responses to those problems.</td>
</tr>
<tr>
<td>SOC 330</td>
<td>Social Inequality</td>
<td>Theories of social inequality and mobility and their ramifications in American society.</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Description</td>
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<tr>
<td>SOC 359</td>
<td>Green Criminology</td>
<td>Environmental offenses, victims, and responses to environmental crimes and harms</td>
</tr>
<tr>
<td>SOC 364</td>
<td>Agriculture and Global Society</td>
<td>Analysis of relationships between global agriculture and social change.</td>
</tr>
<tr>
<td>SOC 431</td>
<td>Community Dynamics and Development</td>
<td>Nature of community; its institutions, problems and processes, including growth, disintegration, and development.</td>
</tr>
<tr>
<td>SOCR 320</td>
<td>Forage and Pasture Management</td>
<td>Fundamentals of establishment, management, and utilization of cultivated forages including hay, silage, and pasture production.</td>
</tr>
<tr>
<td>SOCR 344</td>
<td>Crop Development Techniques</td>
<td>Conventional and transgenic approaches to crop variety development.</td>
</tr>
<tr>
<td>SOCR 350</td>
<td>Soil Fertility Management</td>
<td>Managing soil fertility and fertilizers to meet plant nutrient requirements in an environmentally sound manner with emphasis on nutrient cycling.</td>
</tr>
<tr>
<td>SOCR 370</td>
<td>Irrigation Principles</td>
<td>Determination of irrigation water requirements based on the estimation of storage and movement of water in the soil-plant-atmospheric system.</td>
</tr>
<tr>
<td>SOCR 371</td>
<td>Irrigation of Field Crops</td>
<td>Management of irrigation systems for field crops with emphasis on irrigation methods, irrigation scheduling and strategies for water conservation. Required field trips.</td>
</tr>
<tr>
<td>SOCR 415</td>
<td>Pollinator Management in Agroecosystems</td>
<td>Fundamental concepts of pollinator management, sustainable crop-pollinator interactions, global issues on pollinator conservation.</td>
</tr>
<tr>
<td>SOCR 421</td>
<td>Crop and Soil Management Systems II</td>
<td>Principles of crop and soil management with emphasis on soil erosion control, water conservation, and plant-water relationships.</td>
</tr>
<tr>
<td>SOCR 441</td>
<td>Soil Ecology</td>
<td>An integrative, hands-on experience in the theory and application of ecology principles to the soil environment.</td>
</tr>
<tr>
<td>SOCR 442</td>
<td>Forest and Range Soils</td>
<td>Soil and water relationships in forest and rangeland ecosystems; significant properties in their management.</td>
</tr>
<tr>
<td>SOCR 455</td>
<td>Soil Microbiology</td>
<td>Microbial activities in agricultural, forest, and grassland soils; in soil-plant relationships; and in maintenance of environmental quality.</td>
</tr>
<tr>
<td>SOCR 467</td>
<td>Soil and Environmental Chemistry</td>
<td>Fundamental principles of soil chemistry with respect to environmental reactions between soils and other natural materials and priority pollutants.</td>
</tr>
<tr>
<td>SOCR 475</td>
<td>Global Challenges in Plant and Soil Science</td>
<td>Evaluation of case studies to define problems and develop solutions to address global challenges in plant and soil science.</td>
</tr>
<tr>
<td>Course Code</td>
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<tr>
<td>SOCR 478</td>
<td>Environmental Soil Science</td>
<td>Chemical, biological, and physical aspects of prevention and remediation of soil and water pollution; environmental impact assessment.</td>
</tr>
<tr>
<td>SOWK 352</td>
<td>Indigenous Women, Children and Tribes</td>
<td>Historical and contemporary lives of women, children, and tribal communities.</td>
</tr>
<tr>
<td>SOWK 410</td>
<td>Social Welfare Policy</td>
<td>Issues and processes shaping social welfare institutions; definitions of social welfare policy; analytical framework for policy analysis.</td>
</tr>
<tr>
<td>SOWK 450</td>
<td>International Social Welfare and Development</td>
<td>Framework of social welfare and development in international area; social need with focus on cultures/countries in transition.</td>
</tr>
<tr>
<td>SPCM 334</td>
<td>Co-Cultural Communication</td>
<td>Cultural concerns of communication among co-cultures of United States; diversity; self-awareness as cultural imperative for enhanced communication.</td>
</tr>
<tr>
<td>SPCM 335</td>
<td>Gender and Communication</td>
<td>Analysis and exploration of communication as it relates to gender and women's and men's roles and identities.</td>
</tr>
<tr>
<td>SPCM 357</td>
<td>Film and Social Change</td>
<td>Ways in which the medium of motion pictures has sparked significant social changes at home and abroad.</td>
</tr>
<tr>
<td>VS 313</td>
<td>Prevention and Control of Livestock Diseases</td>
<td>Common ailments of livestock; sanitation and disease prevention and control.</td>
</tr>
<tr>
<td>WR 406</td>
<td>Seasonal Snow Environments</td>
<td>Evaluation of the physical environment; characteristics of snow; methods of studying snow; snow safety.</td>
</tr>
<tr>
<td>WR 416</td>
<td>Land Use Hydrology</td>
<td>Fundamental concepts in hydrology and effects of land use on hydrologic processes.</td>
</tr>
<tr>
<td>WR 417</td>
<td>Watershed Measurements</td>
<td>Instrument and field techniques in watershed science. Project design and data analysis.</td>
</tr>
<tr>
<td>WR 418</td>
<td>Land Use and Water Quality</td>
<td>Physical, chemical, biological water quality parameters affecting land use; land management to maintain water quality; water quality standards, legislation.</td>
</tr>
<tr>
<td>WR 440</td>
<td>Watershed Problem Analysis</td>
<td>Capstone integration of spatial watershed issues, focused on problem solving in watershed science.</td>
</tr>
<tr>
<td>WR 474</td>
<td>Snow Hydrology</td>
<td>Snowfall, accumulation, distribution, physical processes in the snowpack, energy balance, ablation and runoff, measurement methods, runoff forecasting.</td>
</tr>
<tr>
<td>WR 486</td>
<td>Watershed Field Practicum</td>
<td>Field visits to watershed management projects and sites of significant field studies.</td>
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</tbody>
</table>