

Sustainability-Inclusive and Sustainability-Focused Courses at California State University, Channel Islands

Sustainability-Inclusive Courses

Course #	Title	Description
ACCT 410	International Accounting	Develops a fundamental knowledge of the assumptions, environmental considerations and techniques underlying the collection and reporting of financial information on an international scale.
ANTH 105	Intro to Archaeology	A survey of the history and goals of archaeology, with an emphasis on methods of data collection, dating, and interpretation. Data can be sustainability related.
ANTH 310	World Prehistory	Traces the relationship between the physical geography and the development of ancient civilizations in Pre-Columbian America, Africa, Asia, and Europe, beginning with the post-glacial period and ending with the rise of feudalism in Europe and Japan and including change from hunting and gathering groups to sedentary agriculturalists and pastoralists giving rise to later complex social organizations.
ANTH 323	Native Californians	Examines the development of Native American peoples and cultures in California as they adapted to diverse environments. The environmental history of the last glacial and postglacial periods will be examined to provide a backdrop for human history. Using archaeological, historical, and ethnographic sources, the culture history of California's Native Americans will be traced from antiquity to the 1850's. The impact of Spanish exploration, colonization, and the mission system will be traced from the perspectives of both the Native Americans and their colonizers.
ANTH 352	Applied Anthropology	Examines the applications of theory, methods and skills of the four subfields of anthropology to the solve contemporary social problems. Provides a history of applied anthropology and a conceptual framework for understanding different approaches in the field. Issues and topics covered include international development, social inequality and poverty, business and industry, education, law/criminal justice, environmental issues, and other domains.
ANTH 361	Peoples And Cultures Of Latin	Explores the diversity of peoples and cultures of Latin America and the Caribbean with emphasis on indigenous communities and their relationship with the environment.

*Graduate-Level Courses

	America And The Caribbean	Focuses on indigenous peoples pre-contact and the subsequent impact of colonization, cultural and regional diversity, patterns of subsistence and social organizations, reliance on natural resources, and conflicts between indigenous rights and global interests.
ANTH 445	The Seacoast through Time	Places the coastal experience in a broad temporal perspective, envisioning the seacoast as a dynamic interface between the marine and terrestrial environments that have provided humans access to a variety of opportunities related to: resource exploitation, transportation, colonization, cultural interaction, trade, conflict, and inspiration. The course examines the multidirectional ways that humans and the ocean interact.
ART 101	What is Art?	Introductory art appreciation course that examines art and its meanings and values. Students learn to analyze and interpret art from diverse cultures and artistic traditions. Selected topics include various aspects of sustainability.
ART 102	Multicultural Children's Art	Hands-on creation of artistic projects emphasizes the importance of art in the child's development and the understanding of multicultural art traditions in subject matter, materials and processes. Historical contexts and indigenous aesthetics are investigated as they relate to the development of primary skills and appreciation for art and the creative process. Selected topics include various aspects of sustainability
ART 311	Three-Dimensional Art: Sculpture Media and Techniques	Studio projects explore media and methodologies in sculpture, ceramics and other three-dimensional art forms. Assignments emphasize the integration of traditional art materials and techniques with related digital art technologies in the creation of three-dimensional art projects. Includes examination of sustainable materials and methods.
ART 321	Three-Dimensional Art: Sculpture Theory and Process	Studio topics explore theoretical approaches in the development of visual continuity and technical competency working in sculpture, ceramics and related art processes. At this phase of study, projects focus on the integration of artistic concept, technique and proficiency in the use of three-dimensional media in the creation of individual works of art. Includes examination of sustainable materials and methods.
ART 330	Critical Thinking in a Visual World	A critical look at subjective responses and objective reasoning in relation to works of art, architecture, and visual and material culture. Explores the rhetorical power of objects, sites, and images in the structuring of historical

*Graduate-Level Courses

		and contemporary life. Comparative studies address such topics as religious and cultural symbolism, logos and branding, the creation of private and civic spaces, and intersections of art and science, historically and in the contemporary world. Selected topics include various aspects of sustainability.
ART 331	Art, Society, and Mas Media (CL COMM 331)	The study of synergetic relationships between visual art and human communication dating back to the roots of civilization. Comparative studies in art and communication link ancient traditions to the development of contemporary mass media including print, photography, film, television and the internet. Selected topics include various aspects of sustainability.
ART 382	Art for Social Media	A studio activities class involving the production of artwork for social media and evolving digital formats. Concept development, visual design, and motion graphics will be investigated in the production of artwork expressly for applications involving online networks and mobile communication devices. Selected topics include various aspects of sustainability.
ART 390	Screen Printing	Explores the materials, methods, and history of screen printing and serigraphy. Projects may address poster design, fashion and apparel, environmental signage, and a full range of printing surfaces. Emphasis is placed on both traditional and digital techniques, as well as applications in graphic design and fine art settings. Includes examination of sustainable materials and methods.
ART 451	Diversity in the Visual Arts	This course will explore the meaning of diversity in the visual arts. The cross-cultural and chronological examples will address stylistic and conceptual changes within the specificity of various traditions as well as in connection with the global artistic arena. Selected topics include various aspects of sustainability.
ART 489	Art Seminar	Students interact with guest speakers, visiting artists, and industry professionals in a seminar environment. This course also affords students the opportunity to assess their training and summarize artistic achievements through group and individual projects that help prepare them for a variety of careers in the arts. Selected topics can include various aspects of sustainability.
ART 490	Special Topics in Art	Special topics explore a variety of themes investigating the relationships of art and artists to aspects of social commentary, multiculturalism, experimental genres, commerce, first amendment rights and the role of art in a

*Graduate-Level Courses

		global society. Selected topics can include various aspects of sustainability.
ART 499	Art Capstone Project	A culminating interdisciplinary experience in which students from various Art disciplines work in groups with fellow artists, non-art majors and community members on projects specifically designed to meet a common goal. Activities supervised by sponsoring faculty are executed on campus and/or on-site in conjunction with community organizations or businesses. Selected topics can include various aspects of sustainability.
BIOL 301	Microbiology	An introduction to the structure, function and diversity of microorganisms. Explores topics including microbial identification, diversity, metabolism, pathology, microbial ecology, and the role of microbes in human society.
BIOL 303	Evolutionary Biology	This course will examine principles of biological evolution. Topics include evolutionary genetics, adaptation and natural selection, the fossil record, speciation and macroevolution.
BIOL 312	Marine Biology	Overview of the complexity of marine life including marine plants and animals and the processes that underlie their distribution and abundance in open oceans, coastal regions, estuaries and wetlands. Topics included diverse interactions of organisms in the intertidal zone, over the continental shelves and in the open oceans. Field trips to local marine environments will be taken.
BIOL 320	Deep-Sea Biology And Ecology	Overview of the diversity and complexity of deep-sea life and ecology. Starting from the photic zone and working down to the abyss, topics will include food webs, nutrient cycling, biodiversity, and adaptations to low-light, high-pressure, extreme environments. Ecosystems reviewed will include open ocean, continental shelves, deep benthic communities, hydrothermal vents and seeps, whale-falls, and more. Additional topics include the history, technology and exploration of the deep-sea, as well as conservation and anthropogenic interactions such as deep-sea fishing and hydrothermal vent mining.
BIOL 335	The Biosphere	The biosphere, the region of the planet where life exists, extends up into the atmosphere as well as down into the deepest ocean trenches. This course will examine the origin, workings, and human influence on earth's biosphere. Topics include evolution of life on earth, atmosphere and climate changes, earth's resources and human impacts.
BIOL 406	Evolutionary Biogeography	Examines the spatial and temporal distribution of plant and animal groups with emphasis on historical, environmental

*Graduate-Level Courses

		and biological processes governing current patterns of species and habitat geography. Integrates theory and analytical tools from geology, paleontology, ecology, evolution and genetics to study the effects of global change on biodiversity.
BIOL 432	Principles of Epidemiology AND Environmental Health	Distribution and dynamics of human health problems and principles and procedures used to determine circumstances under which disease occurs or health prevails and to aid in managing and planning health and environmental systems. The broadened scope of epidemiology is examined through case studies and community and environmental health approach.
BIOL 435	Ethnobotany	Ethnobotany is an interdisciplinary area that allows students to integrate science and culture as a way of understanding human reliance on plants and the environment. The course combines the study of the interaction of people and plants with a broad survey of the diversity of plants described both scientifically and culturally.
BIOL 450	Ichthyology: The Biology of Fishes	This course will survey the diversity of living and fossil fishes. Fishes are the largest and most diverse group of vertebrate animals. Aspects of the ecology, physiology and evolutionary history of these animals will be examined. Extensive human interactions with fishes and particularly conservation issues will be highlighted. Emphasis will be placed on the identification and biology of California coastal and inland species. Field trips will be required.
BIOL 453	Methods in Population and Community Ecology	Discusses the mechanisms governing population dynamics and community structure. Mathematical models for population growth, predator-prey interactions, competition, island biogeography, and food webs will be explored. Computer labs will emphasize the analysis of ecological datasets.
BIOL 454	Conservation Genetics	Presents an overview of endangered species and critical habitat management. The implications of small populations will be examined from a genetic and evolutionary perspective. This will include case studies of endangered and threatened taxa. Local and global issues pertaining to the conservation of biodiversity, including the assessment of threats and protection strategies, will be discussed.
BIOL 471	Soil Science	Provides students with a fundamental understanding of the structure and function of soil systems: the kinds of organisms that inhabit soil, microbe-plant interactions, nutrient cycling, soil fertility, and plant production. Soil is a habitat for plant roots and plant symbionts, plant pathogens, bacteria and fungi, and macrofauna (i.e. earthworms and vertebrates). Understanding the belowground environment and its complexity is crucial for understanding soil fertility and the

*Graduate-Level Courses

		role that soils play in agriculture, environmental quality, and global environmental change.
BIOL 472	Integrated Pest Management	Integrated pest management is a comprehensive approach to monitoring and controlling agricultural pest in an environmentally acceptable manner. The ecological principles of pest management will be presented and practiced as they relate to plant pathogens, weeds and arthropod pests. The major strategies for controlling pests, including the use of natural predators, cultural practices and chemical applications, will be discussed. Students will also examine the current pest management practices of local agricultural systems.
BIOL 475	Apiculture and Bee Biology	This course will discuss the evolution and diversity of bees in the context of their morphology, behavior, and co-evolutionary relationships with plants. The honey bee will serve as a model for understanding bee development, nutrition, physiology, and reproduction. The history of beekeeping will be presented in relation to the agricultural products and services provided. The course will also provide an introduction to modern beekeeping and discuss current factors affecting bee health including pests, pathogens, and management practices. Alternative crop pollinators and the pollination requirements of locally important crops will also be presented.
BIOL 476	Apiculture and Bee Biology Lab	This laboratory course is intended to complement the lecture by providing students hands on experience in handling bees. Students will be exposed to the diversity of bees and their behaviors, as well as taught how to examine honey bee colonies and basic beekeeping techniques. Laboratory exercises will also encompass honey bee products, crop pollination, and how to promote solitary bees.
BIOL 492	Internship	Supervised work and study in work situations involving biological research and technical skills. May involve service learning. All students are required to attend the Biology Program Senior Capstone Colloquium to present their projects. Selected topics include various aspects of sustainability.
BIOL 494	Independent Research	Laboratory and/or library research that may involve service learning in selected areas of biology conducted under the direction of a faculty member. All students are required to attend the Biology Program Senior Capstone Colloquium to present their projects. Selected topics include various aspects of sustainability.
BIOL 497	Directed Study	Reading and library research that may involve service learning in selected areas of biology conducted under the direction of a faculty member. All students are required to

*Graduate-Level Courses

		attend the Biology Program Senior Capstone Colloquium to present their projects. Selected topics include various aspects of sustainability.
BIOL 499	Senior Capstone in Biology	Integration of previous coursework, knowledge and skills as they apply to specific topics in Biology and the impact of biological science on society. Emphasis will be placed on analysis of scientific literature, problem solving and oral and written communication skills. Selected topics include various aspects of sustainability.
BUS 110	Business Law	Introduction to the legal and regulatory environment of business, emphasizing the USA legal system. Topics include contracts, personal property, litigation, antitrust, labor agreements, discrimination, environmental protection and international trade and law.
BUS 203	Intro to Social Business (CL ECON 203, SOC 203)	Interdisciplinary overview of Social Business models and their application to social, economic, technological, cultural, political and environmental issues both locally and globally. Introduction to the finance and planning of Social Businesses, as well as comparisons to traditional and other alternative business models
BUS 448	Globalization and Development (CL ECON 448, SOC 448)	Examines empirical and theoretical issues of globalization from a sociological perspective, to understanding how the forces of globalization affect economic, political and cultural systems of both developed and developing nations.
BUS 498	Faculty-Student Collaborative Research in Social Business (Cross-listed as ECON 498, SOC 498)	Engage in the creation of original intellectual or creative work by collaborating with a faculty member on research of a social business. Includes in-depth and possible on-site study of a social business using knowledge from previous courses in the minor/certificate; and the writing of a case study about the chosen social business. Recent topics included collaborating with a local company interested in pursuing the B Corp certification. This certification recognizes companies with the highest social and environmental standards.
BUS 560*	The Entrepreneurial Manager	Focuses on aspects of starting a new business, with an emphasis on recognizing and creating opportunities. Topics include attributes of entrepreneurs and entrepreneurial careers, evaluating opportunities, writing business plans, consumer and market analysis, new product design and development, creativity, innovation, forecasting, resource requirements, financing, and managing new ventures. The course also explores the spectrum of entrepreneurial mission-driven organizations, social business, and sustainable business models.

*Graduate-Level Courses

CHEM 100	Chemistry and Society	An introduction to the basic principles of chemistry and a consideration of the benefits and problems arising from applications of chemistry. Discussions of foods and food additives, drugs, plastics and other materials of everyday life, fuel sources, the atmosphere, and fresh water.
CHEM 250/251	Quantitative Analysis	An examination of analytical chemistry theory and techniques involved in the quantification of inorganic, organic, and biological species from samples. Emphasis on gravimetric, volumetric, and separation techniques, as well as data analysis and statistics. Examine environmental, biological, and medical applications of the analysis techniques.
CHEM 494	Independent Research	Provides student credit for independent laboratory research. Selected topics include various aspects of sustainability.
COMM 327	Communicating Science & Policy	Provides an introduction and overview of environmental science communication in the broader contexts of (a) the role of communication in science, and (b) the cultural, practical and policy-related role of science communication to a variety of audiences and the wider society. This course focuses on best practices for environmental science communication and the translation of complex material in terms of persuasiveness and accuracy intended for a variety of audiences, including the science community, stakeholders, media representatives, policy makers, and public audiences. Cultivate students' practical communication skills, with particular emphasis on effective speaking, writing and exhibiting on scientific and science-related topics to effectively engage non-scientific audiences via a variety of formats such as elevator speeches, narratives and analogies, social media, grant-writing, and advocacy papers. Provides students with the opportunity to undertake a substantial practical project in grant writing or science exhibiting.
COMP 447	Societal Issues in Computing	Surveys the role of the digital computer in modern society. Topics include: dangers of the misuse of computers, privacy, copyright, computer crime, legal and social issues, as well as the ethical and appropriate use of computers. Selected topics include various aspects of sustainability.
CHS 331	Transborder Perspectives in Chicana/o Studies	Focuses on the major theoretical concepts in transborder studies as they apply to Chicana/o studies in the areas of culture and cultural production, economics, gender issues, health, history, and migration. Selected topics include various aspects of sustainability including environment health and justice.
CHS 343	Health Issues in the Latina/o	Examines the health issues affecting the Latina/o community and considers interventions, public health

*Graduate-Level Courses

	Community (CL NRS 343, COMM 343)	policies, and health promotion programs, used to improve the health status of the Latina/o community. Includes a focus on environmental health issues.
CHS 353	Chicana/o Latina/o Literature (CL ENGL 353)	Study of the literature written by Chicana/o and Latina/o authors in relation to relevant cultural, aesthetic, historical and sociopolitical contexts. Selected topics include various aspects of sustainability.
EDMS 529*	Science, Health and Phys Ed*	Study of the application of recommended methods for teaching physical, life and earth science, health and physical education to students (K-8) based on research and theory. Students reflect upon their personal development and abilities to integrate theory and practice in science, health and physical education with other subject areas. Needs of English Language Learners and exceptional children, technology for teaching and learning are integrated.
EDSS 532*	Teaching Science in Middle School*	A study of content, methodology, materials and current research in middle school science teaching. Focuses on developing science process skills in middle school students. Emphasizes reflective practice based on California Teacher Performance Expectations and the use and alignment of curricula to the Academic Content Standards for California Public Schools. Includes an emphasis on teaching in multicultural, multilingual and inclusive classrooms.
EDSS 542*	Teaching Science in High School*	A study of the content, methodology, materials and current research in teaching high school science courses. Focuses on methods, curriculum design, literacy and technology use specific to teaching science courses in grades 9-12. Emphasizes reflective practice based on California teacher performance expectations and the use and alignment of curricula to the Academic Content Standards for California Public Schools and the next generation science standards. Emphasizes teaching in multicultural, multilingual and inclusive classrooms.
ENGL 105	Composition and Rhetoric I	Instruction and practice in writing university-level expository and persuasive prose. The subject matter of the course will be thematic and variable. The focus of the course is the development of proficiency in conceptualizing, analyzing and writing academic papers. Substantial writing is required. This course may be linked with another lower division course, in which case the student will enroll in both courses. Topics can be sustainability related. Selected topics include various aspects of sustainability.

*Graduate-Level Courses

ENGL 107	Advanced Composition and Rhetoric	An intensive, one-semester writing course that emphasizes research as a heuristic for learning, writing as an intellectual dialogue with the authorities represented in the evidence found, and which engages students in judging the merit and appropriateness of discovered evidence. A substantial amount of writing is required. Selected topics include various aspects of sustainability.
ENGL 160	Genre Fiction	An exploration into genre fiction such as crime, science fiction, fantasy, romance, thriller, mystery, and horror. Each section will pick one genre and study it in-depth. A variety of writers within the genre will be explored. Students will apply what they have learned from genre conventions through creative works such as short stories, poems, or one-act plays.
ENGL 206	Composition and Rhetoric	Instruction and practice in writing university-level expository and persuasive prose centered on exploring socioeconomic and sociopolitical issues in our local and global communities. The subject matter of the course will be thematic and variable. The focus of the course is the development of proficiency in conceptualizing, analyzing, and writing research-based academic texts in addition to "real world" texts for community partners. Substantial research and writing as well as off-campus service with community partners are required. Experiential-learning emphasized.
ENGL 210	Themes and Theories in World Literature	A survey of world literature and theoretical perspectives, focusing largely on texts by non-western authors, organized around one or more themes. Texts studied are primarily written by authors from the following areas: Asia, South Asia, the Middle East, Africa, and Latin America. Selected topics include various aspects of sustainability and the environment.
ENGL 330	Interdisciplinary Writing	Individual and collaborative writing that integrates research from a variety of disciplines. Students will work on projects that incorporate various forms of research, including electronic, and which result in both oral presentations and academic papers. Each section will be based on a theme appropriate for interdisciplinary research and writing.
ENGL 345	Science/Fiction	Examines fictional technologies, real-world possibilities, and the relationship between science and the imagination.
ENGL 349	Multicultural Literature	An introduction to the diversity of American literatures, their unique literary traditions and forms, and what they hold in common. An emphasis on becoming cross-cultural readers and writers aware of how culture influences literature.
ESRM 105	Environmental Issues in Geography (CL GEOG 105)	Introduction to basic concepts in geography and related environmental issues. Examines environmental impact on human affairs and human impact on the environment. Spatial awareness including cartographic knowledge, skills with global positioning systems (GPS) as well as hands-on

*Graduate-Level Courses

		experience using Geographic Information Systems (GIS) is emphasized
ESRM 200	Principles of Resource Management, Conservation and Stewardship	Students will work with the National Park Service, U.S. Geological Survey or other agencies on related resource projects.
ESRM 301	Field Professionalism	Training in a wide variety of ancillary field skills necessary to safely and professionally work as a field scientist. Skills include basic first aid, wilderness first aid, communication (via cell, satellite, and radio), site assessment, basic camping and survival skills, basic orienteering, personal safety, and related competencies necessary to fieldwork.
ESRM 313	Conservation Biology (CL BIOL 313)	This course explores issues surrounding the conservation of biodiversity. Topics to be covered include: species-, population-, and ecosystem-level issues, biodiversity, extinction, sustained yield, exotic species, and reserve design. Management implications and the ecology of issues are integrated throughout the course.
ESRM 328	Intro to Geographic Information Systems	Introduction to fundamental concepts and techniques of geographic information systems, including the collection, manipulation, analysis, interpretation, display, and communication of spatial information for environmental decision making.
ESRM 341	The National Park (POLS 341)	An interdisciplinary, in-depth study of one or more units of the National Park Service from a variety of perspectives including Political Science, Public Administration, and Environmental Science and Resource Management. The course analyzes how conservation issues and practices, administrative and policy processes and interpretive (educational) programs work within the context of a national public resources agency. Each term this course will focus on one or more park unit in the region.
ESRM 351	Field Methods: Monitoring and Assessment	An interdisciplinary, in-depth study of one or more units of the National Park Service from a variety of perspectives including Political Science, Public Administration, and Environmental Science and Resource Management. The course analyzes how conservation issues and practices, administrative and policy processes and interpretive (educational) programs work within the context of a national public resources agency. Each term this course will focus on one or more park unit in the region.
ESRM 370	Fundamentals of Remotely Piloted Systems	Explores the basics of Unmanned Aerial Vehicles and Remotely Operated Vehicles from a range of perspectives including aero-hydrodynamics, data collection, legal, cultural, basic programming, and public safety. Students

*Graduate-Level Courses

		will be exposed to control systems, various vehicle designs, and routine equipment maintenance. Selected topics include various aspects of sustainability and environmental monitoring.
ESRM 371	Coastal Monitoring with RPS	Develops student skills in vehicle maneuvering, control systems, safe operations, and effective planning and budgeting. Students will focus on data collection built around data collection activity labs. Classes will typically focus on either aerial or aquatic systems. Selected topics include various aspects of sustainability and environmental monitoring.
ESRM 428	Intermediate Geographic Information Systems	Study of concepts and techniques of geographic systems, with special emphasis on the environmental issues at multiple spatial scales.
ESRM 440	Population Studies (CL SOC 440)	This course focuses on the basic concepts, skills and issues in demography and population studies. It will apply concepts to contemporary population issues such as family demography, urban transition, environmental degradation, and economic development.
ESRM 482	Issues in Environmental Planning and Resource Management	Selected issues in resource development derived from current resource policy changes, or other emerging topics of interest.
FJS 210	Ethics for a Free World (CL PHIL 210)	Students will explore concepts and practices of ethics, freedom, and justice by comparing how these have been theorized and practiced in relationship to each other across at least two times periods and cultures. Starting from a foundation in philosophy and developing an interdisciplinary lens, this class examines these foundational concepts and practices especially as engaged across the fields of identity and civil rights-based studies (including religious, ethnic, women's, gender, sexuality, and disability studies, etc.). Selected topics include various aspects of sustainability and the environment.
GEND 433	Intro to LGBT Studies (CL ENGL 433)	Introduction to the field of gay/lesbian/ bisexual/transgender studies through the reading of literature and theory.
GEOL 122	Historical Geology	This course focuses upon the geological history of the Earth and the Solar System from the origin of the cosmos to the present, tracing the evolution of the continents and ocean basins, and the evolution of plants and animals through time. Surveys events in Earth's past of relevance to present environmental issues.

*Graduate-Level Courses

GEOL 321	Environmental Geology	Interrelationships between human and natural geologic hazards: tsunami, earthquakes, landslides, subsidence, volcanoes. Explores environmental impact of resource extraction and usage, the importance of understanding the geologic processes and landscape in land use planning, and the means of using geology to minimize conflicts in resource management and disaster preparation.
GLST 200	Into to Global Studies	An introduction to globalization and its effect on governance, economic success, culture, the environment, and other global issues of human concern.
GLST 435	Global Cities	Introduces students to interdisciplinary issues faced by global cities. Offers a range of transnational topics, including but not limited to historic and contemporary issues of migration, racism and xenophobia, environmental degradation, global culture, movement of capital, and national identity. Specific global cities and related content to be designed by the instructor(s).
HIST 365	Themes in World History	Explores the major trends in global approaches to history. These include anthropological, diaspora, environmental, and world systems approaches.
HIST 366	Oceans of World History	Discusses the main approaches to world history through the lens of the Earth's three major oceans: Atlantic, Indian, and Pacific. Selected topics include various events, trends and ideas related to the environment.
HIST 430	Tradition and Transformation (CL ENGL 430)	Bringing literature and history together, this course exposes students to a diverse range of work in art, literature, films, and history. It cultivates the students' intellectual understanding of the topic from both a cross-disciplinary and a cross-cultural perspective. It emphasizes reading, writing, analytical skills, and communication skills. Topics and themes may vary under the same title. Selected topics include various aspects of sustainability and the environment.
HLTH 101	Overview of Health Care Industry and Its Delivery	Covers the conceptual basis for the health care industry, the structure of the US health service systems and their functions, operations and service deliveries to populations and individuals. Discusses the issues with the US health care system and other countries; health care systems and the efforts in health care reform.
HLTH 102	Community Health Organizations and Their Functions	Applies a holistic wellness perspective to community health and focuses on community strengths and resilience rather than risks and disease. Topics include community health organizations, models, administration, and their services as well as instruction on the basic principles and practical design and management elements that are needed

*Graduate-Level Courses

		to create effective community- based health organizations through effective coalitions and partnerships for the purposes of community wellness.
HLTH 300	Nutrition, Exercise and Wellness	Covers fundamental principles of nutrition, human metabolism and exercise physiology and discusses relationship between the necessity and quality of nutrition, muscle movement, exercise, and overall wellness.
HLTH 301	Introduction to Public Health Administration	Examines public health as an organized system, integrating the different areas of study, fields or work, and governmental agencies that facilitate the delivery of public health services on a daily basis. Discusses the essential public health principles in the context of identifying and controlling community health problems, as well as the evaluation of programs; including planning, management, evaluation, and behavior of public and private health care organizations at the local, state, and national levels.
HLTH 322	Health Issues in Education	Survey of school health programs with in-depth study of selected health education curricula and topic areas, including alcohol, environmental influences, tobacco, drugs, communicable diseases and nutrition. Development of strategies and methods for teaching controversial areas.
MATH 202	Biostatistics (CL PSY 202)	Critical reasoning using a quantitative and statistical problem-solving approach to solve real-world problems. Uses probability and statistics to describe and analyze biological data collected from laboratory or field experiments. Course will cover descriptions of sample data, probability and empirical data distributions, sampling techniques, estimation and hypothesis testing, ANOVA, and correlation and regression analysis. Problems analyzed include various aspects of sustainability and environmental issues.
MGT 326	Business and Professional Ethics (CL BIOL 326)	Discussion of ethical issues and societal challenges derived from scientific research and professional activities. Examines the sources, fundamental principles, and applications of ethical behavior; the relationship between personal ethics and social responsibility of organizations; and the stakeholder management concept. Applies ethical principles to different types of organizations: business, non-profits, government, health care, science/ technology, and other professional groups.
MKT 497	Directed Study	Individual contracted study on topics or research selected by the student and faculty mentor. Recent topics include conducting primary research and writing a publishable case study and teaching notes on

*Graduate-Level Courses

		sustainable social enterprises. Last Spring, one of the cases was The Refill Shoppe in Ventura. Students learned about ocean plastic pollution and a business model designed to alleviate that problem. The case was presented in the North America Case Research Association Annual Conference in Tempe, Arizona last October.
NRS 452	Community Health Nursing Theory	This course is intended to introduce students to nursing care of individuals, families, aggregates, communities, and populations across the lifespan and from diverse backgrounds on the principles and practices of community health. Emphasis is placed on assessing factors that influence the health of populations, identifying vulnerable populations, identifying community preferences and the implementation of evidence-based practices in the delivery of care. Emphasis is on spiritually and culturally appropriate health promotion and disease prevention interventions with the application of Neuman Systems Model. The role of the nurse as advocate for social justice is explored.
NRS 453	Community Health Nursing Lab	This course is intended to introduce students to nursing care of individuals, families, aggregates, communities, and populations on the principles and practices of community health, while exploring contemporary public health problems and working collaboratively with the community as part of the inter-professional team. Emphasis is placed on assessment factors that influence the health of populations, identifying vulnerable populations, and the implementation of evidence-based practices in the delivery of spiritually and culturally appropriate health promotion and disease prevention interventions. The role of the nurse as advocate for social justice is explored. Emphasis is on the health of the population based on nursing process as defined by the Neuman System Model. The course assists the student in developing skills of community assessment, program planning and practice interventions to help identify vulnerable populations within the community to maintain their optimal health.
PHED 208	Intro to Kinesiology	Examines the field of human movement, introduces biomechanics, anatomy, exercise physiology, and motor learning. Basic anatomy, function of the musculoskeletal system, laws of motion, principles of force, equilibrium concepts, and laws governing projectiles will be introduced and applied to various sports activities. The student will develop the ability to analyze skill movements in specific sport activities.
POLS 103	International Politics	Offers an overview of current theory, topics, and research in the Political Science subfield of International Relations. Emphasis will be placed on the role of power in international

*Graduate-Level Courses

		affairs, the structure of the international system, the meaning of security, and the importance of economic relations between nations and regions.
POLS 304	Aging Policy and Politics (CL HLTH 304)	Examines the role of political institutions in policy making related to issues of aging, the political factors that shape policy formulation and implementation, the values and assumptions of different types of policies, and the links between policy and implementation. Analyzes current and pending policies' effects on older adults as well as businesses and institutions that serve them to illustrate how aging policy reflects American politics. Selected topics include various aspects of public health, and environmental health
POLS 305	Gender and Politics	Examines the role of women as political actors in the United States. Also explores the impact of public policies on women in America. Selected topics include various aspects of sustainability, including environmental health and justice.
POLS 306	The Politics of Race and Ethnicity	Examines the politics and policy consequences of racial and ethnic identity in the United States. Special attention will be paid to issues of race and politics in contemporary southern California. Selected topics include various aspects of environmental health and justice.
POLS 329	International Law and Organizations	Studies processes of global governance, which includes a focus on selected international institutions and the basics of international law.
POLS 334	Peace Studies	Examination of theories of and issues in the interdisciplinary field of peace and conflict studies. In-depth analysis of the concepts of peace and war, causes of conflict and war, achieving negative peace, building positive peace, and in-depth case studies in nonviolence. Comparison of disciplinary approaches to the field, as well as appraisal of interdisciplinary syntheses.
POLS 355	International Relations of South Asia	Examines countries of South Asia (India, Pakistan, Bangladesh, Sri Lanka, and Nepal). Focus is on problems these states have faced in their struggle for economic, political, and social development in the broader global system. Impact of extra-regional states in the colonial era and currently is examined as well. Deals also with contemporary challenges such as cultural diversity, terrorism, continuing poverty, economic integration, and sustainable development.
POLS 403	Comparative Foreign Policy	Examination of how and why states develop distinct foreign policies through review of prominent theoretical perspectives in the comparative foreign policy literature. Application of theories to a number of real world cases of foreign policy

*Graduate-Level Courses

		decision making by the governments of countries in Africa, Asia, Europe, Latin America, and the Middle East, in different issue areas, including national security policy, foreign economic policy, human rights, environmental policy, and the fight against terrorism.
POLS 426	Politics of Developing Countries	Examines political, economic and social development in developing countries.
POLS 427	Model United Nations	Seminar for students participating in the Model United Nations program. Students prepare for and engage in MUN conferences, including research, writing, public speaking and negotiation. Content of course material varies each semester depending on country and global issues assigned.
POLS 428	International Political Economy	Focuses on intersection of politics and economics, defining and describing significant features of the international political economy and applying them to current situations. Different schools of thought (liberalism, mercantilism, Marxism) will be examined in detail. Course also examines basic structures of the international economy (production, finance, etc.) and the tensions these create with the traditional sovereign state structure. North/South issues and differences will be examined, as will how globalization of the economy affects other issues such as access to food, culture, and the environment.
PSY 312	Social Psychology	This course is an in-depth survey of the major areas of social psychology. Emphasizes an understanding of the important methods, terms, theories, and findings in the field of social psychology. Selected topics include various aspects of sustainability
SOC 301	Social Business Planning (CL ECON 301, BUS 301)	Addresses the major issues confronted when planning a social business: identification, diagnosis and measurement of social problem, elements of a social business plan including all types of resource flows, plausible forecasting about them, tax issues, and legal issues. Students will interact with an existing social business and research its business plan.
SOC 336	Social Entrepreneurship (CL BUS 336)	Social entrepreneurship is about creating and leading organizations that strive to advance social change. Draws from both theory and practice to explore important trends in the private and social sectors, which are creating space for innovation and opportunities for individuals with business skills to drive positive change. Incorporates case studies, exercises, field trips, group presentations, and a semester-long service project.
SOC 425	Contemporary Immigration	Cross disciplinary examination of contemporary immigration and citizenship in the United States in comparison with other countries. Selected topics

*Graduate-Level Courses

	Issues (CL CHS 425)	include various aspects of environmental health and justice.
UNIV 250	Second-Year Seminar	Examining ideas and perspectives in a complex world, this sophomore seminar highlights interdisciplinary connections in scholarship and ways of knowing, and fosters in students their development as self-reflective, culturally-aware, and responsive community participants. Students gain hands-on experience, knowledge, and skills about local communities and community organizations, and learn how different academic disciplines apply to real-world problems. Requires community service work, in addition to class time, during the semester. The office of Sustainability is a main partner for this course.

Sustainability-Focused Courses

Course #	Title	Description
ANTH 332	Human Ecology (CL ESRM 332)	This human ecology course places humans into the environment in historical and global contexts. Discusses systems theory as it applies to human adaptation to the environment. Studies the relations among political power, ideology, and resources, integrating concepts from ecology with those from social sciences. Theories and forecasts of human population growth and migration among regions and cultures. Social and environmental impacts of population and age distribution. Natural resource constraints on growth. Topics from land development, resource planning, environmental quality, politics, economic growth, conflicts and wars.
BIOL 200	Principles of Organismal and Population Biology	An introduction to the biology of organisms including ecology, evolution, diversity and human impacts. The ecology unit includes discussion of population, community, and ecosystem ecology. Evolution covers natural selection and the Darwinian revolution, origin of species, and other evolutionary processes. Diversity covers systematic and taxonomy, and a tour of life on Earth including viruses, prokaryotes, protists, fungi, plants and animals. Human impacts on biological systems will be discussed.
BIOL 433	Ecology and the Environment	Ecological characteristics of natural ecosystems and basic effects of human society upon those systems. Plant and animal distribution patterns in relation to past and present physical and biotic factors. Issues of resource management, population, food production, global

*Graduate-Level Courses

		environmental problems will also be emphasized to explore future directions. Field trips to local ecosystems will be taken.
BIOL 473	Sustainable Agriculture	Explores local and global issues pertaining to sustainable agriculture. We will examine theoretical and practical aspects of food production from ecological, as well as social and economic perspectives. Topics will include soil fertility, crop selection, irrigation, pest management and sustainable food delivery systems. The laboratory will explore sustainable practices in a garden setting and in local agricultural systems. We will also discuss the challenges of food production in hotter and dryer conditions stemming from climate change.
BIOL 477	Sustainable Insect Husbandry	Introduces students to sustainable animal husbandry practices, with a focus on insects as livestock. Topics will include the nutrition, development, reproduction and diseases of focal species, including model research organisms, biological control agents, edible insect and crop pollinators. Emphasis will be placed on the practice of raising insects as agricultural products. Field trips will be taken to local insectaries. Lab activities will focus on maintaining insect colonies and modeling population growth.
CHEM 101	Chemistry and the Environment	Relates fundamentals of chemistry to contemporary environmental issues. Applies scientific principles to environmental problems concerning energy, air quality, and waste management.
CHEM 301	Environmental Chemistry - Atmosphere and Climate	The focus is the fundamental natural chemical process of the atmosphere, as well as the anthropogenic effects on this system. These include climate change and other current topics of environmental interest and the science behind the process.
CHEM 302	Environmental Chemistry - Soil and Water	Examines the environmental chemistry of the geosphere and the hydrosphere. Natural and anthropogenic effects on the environment in these systems, including effects on living organisms, hazardous waste and its disposal, and measures to alleviate and prevent environmental problems.
COMM 443	Environmental Communication (CL ESRM 443)	Students analyze and engage in debates about local, national and global environmental disputes. Topics include analysis of risk, community dialogue and strategic environmental messages.
COMM 450	Environmental Conflict Resolution (CL	Provides practical experience in negotiation and mediation techniques within the context of complex environmental and public policy disputes. Topics

*Graduate-Level Courses

	ESRM 450, POLS 450)	include analysis of risk, community dialogue and strategic environmental messages.
COMM 490	Special Topics	Special topics that combine communications with sustainability.
COMM 492	Internship Seminar	Internship with sustainability groups. Combines communication with sustainability.
COMM 494	Independent Study	Selected projects combine communications with environmental studies and sustainability.
COMM 496	Environmental Film and Speaker Series (CL ESRM 496)	Uses current and classic environmental films and documentaries to address current environmental issues. Brings such guest speakers as authors, professors, community activists, environmentalists, non- and for-profit business representatives, and government officials to present on specialized subjects including renewable energy, green business, environmental justice, green city planning and sustainable food systems.
COMM 499	Capstone Project	Selected topics combine communications with environmental studies and sustainability.
ECON 362	Environmental Economics	Economic analysis of environmental problems and policy. Private (market) and public (government) solutions to the environmental problems are examined.
ECON 480	Topics in Environmental And Natural Resource Economics	Application of economic analysis to topics in environmental and natural resource economics. Representative topics include: energy problems and policies, the measurement of market and non-market benefits and costs, endangered species management.
ENGL 338	Science and Conscience (CL PHYS 338)	This course examines various ethical issues within the sciences using case studies. The scientific, environmental, historical and social aspects of each case study will be examined from different perspectives. Students will learn scientific concepts which will facilitate an informed understanding of the ethical issues involved.
ENGL 337	Literature of the Environment	Involves the student in many forms of dialogue on issues pertinent to humanity's relationship with Earth. By reading works by writers from diverse fields and by writing in response, the student will gain a better understanding of our planet and its needs. Emphasis will be placed on writing in modes appropriate to the interdisciplinary field of Environmental Science and Resource Management.
ESRM 100	Intro to Environmental Science and Resource Management	This course covers a broad spectrum of environmental science topics including: biogeochemical cycles, biological diversity, world food supply, effects of agricultural production on the environment, energy, water and air environments, and societies' impacts on the environment.

*Graduate-Level Courses

		Current environmental issues such as loss of biological diversity, global climate change, ozone depletion, and natural resource management will be discussed.
ESRM 203	Introduction to Environmental Statistics	Introduces students to quantitative, analytical skills, and technological tools commonly used in ESRM scholarship with an emphasis on open-source tools. Analytical categories include parametric, non-parametric, multidimensional scaling, and Monte Carlo approaches to hypothesis testing. Coursework will span data structure and QA/QCing of datasets, progress to common experimental design and hypothesis testing, and compare and contrast common social and ecological experimental design and data structure. Much of the semester will center around the R language, but students will also be exposed to a variety of commonly used, non-command line tools (e.g. JMP, Plot.ly, Tableau).
ESRM 210	Physical Oceanography	Focuses on ways in which oceans function and interact with earth systems. Consideration is given to sea floor geology, ocean currents and vertical mixing, water chemistry, heat and energy transfer, and coastal processes. Also addresses the importance of the oceans to human beings, as well as the impact of human activities on the oceans.
ESRM 300	Coastal Contaminants and Ecotoxicology	Examines topics in the field of ecotoxicology including exposure pathways, mechanisms of toxicity, coping strategies, and the biochemical and physiological effects of different pollutants on organisms. The major pollutant classes and the pollutants' sources, transport through ecosystems, eventual fate, and remediation will be discussed. Environmental sampling and rapid analysis techniques for the characterization of pollutants in the field will be emphasized via a lab component that assesses pollution at a local site within the coastal zone.
ESRM 205	Principles of Sustainability	Presents and analyzes the fundamental principles, methods, and procedures concerning sustainability. Topics include the history of the sustainability movement, underlying causes for the depletion of natural resources, and current thinking on the need to consider environmental sustainability in organizational strategic planning.
ESRM 329	Environmental Law and Policy	Introduces the fundamental concepts of environmental law and policy and familiarize students with the various types of legal mechanisms used to protect the environment.
ESRM 335	The Beach	Interdisciplinary course that explores the sociocultural importance of sandy beaches in Southern California, and analyzes the interaction of natural and human systems in the coastal zone. Explores the physical and biological aspects of California's beaches, examines anthropogenic

*Graduate-Level Courses

		stressors on the ecosystem, integrates diverse perspectives on California's beach culture and society, and focuses on issues pertaining to coastal development and sustainability.
ESRM 350	Ecological Restoration Design and Construction	Introduction to environmental engineering. Students will participate the planning and construction of ecological restoration projects in Santa Barbara, Ventura, and/or Los Angeles Counties. Particular projects will expose students to construction procedures and techniques central to the restoration of riparian, wetland, and terrestrial communities.
ESRM 352	Theory and Practice of Ecological Restoration	Introduces the theory and practice of modern ecological restoration
ESRM 365	Natural History & Resource Management of the California Channel Islands	Examines the natural and cultural history of the California Channel Islands. Students learn to identify the current threats and future management needs to preserve the environment of the islands.
ESRM 410	Environmental Impact Assessment	Introduces students to methods and procedures designed to assess and minimize human impacts on natural systems.
ESRM 462	Coastal and Marine Resource Management	Provides an introduction to marine provinces, physical and biological oceanography, threats to the marine environment across various temporal and spatial scales and various policies and programs to improve resource management.
ESRM 463	Water Resource Management	Water management principles focusing on surface and ground water hydrology; water conservation, watershed development; water quality measurement and monitoring; water and wildlife/fisheries; and water conflicts.
ESRM 464	Land Use Planning and Open Space Management	Examines various approaches to land use planning at the municipal, state, national, and international level focusing on the role of land use planning in managing open space and protected area lands within and adjacent to urban areas.
ESRM 483	Issues in Global Resource Management	Selected issues in global resource management. Topics may include climate change, ocean management, desertification, air pollution, ozone depletion, patterns of consumption, water pollution, water allocation, international policy or legislative instruments, or other topics as appropriate.

*Graduate-Level Courses

ESRM 484	Climate Change and Adaptation Planning (New Class)	Explores climate change science and its criticisms, climate change scenarios, attribution debate, expected natural and human impacts and vulnerabilities, mitigation, adaption, and geoengineering. Focuses on adaption planning and practice for governments and organizations.
ESRM 490	Special Topics	In-depth analysis of current topics in environmental science and resource management. Selected topics can be focused on various aspects of sustainability.
ESRM 491	Capstone Preparation	Research and develop a proposal for an ESRM project. Selected topics can be focused on various aspects of sustainability.
ESRM 492	Service Learning/Internship	Individual internship through service learning. Internships and projects include activities with sustainability focused organizations or engagement in environmental /sustainability projects.
ESRM 494	Independent Research	Selected topic can be focused on various aspects of sustainability.
ESRM 499	Capstone	This course consists of an interdisciplinary evaluation of the physical, biological, social, economic, and legal dimensions of environmental decision- making. The instructor will select from Southern California ecosystems - and decisions with associated environmental impacts – for evaluation and analysis. Topics include decisions to reduce, control, or treat surface water run-off, establishing or changing the management of marine protected areas, dredging in harbors, and permits for coastal development. Students will provide results to appropriate national, state, or local agencies for consideration and deliberation in administrative decisions.
FJS 340	Exploring Freedom and Justice	Starting from philosophical understandings of identity, community, and democracy the course focuses on themes such as slavery and emancipation; environmental justice; migration, exile, and diaspora; violence and reconciliation. Using an interdisciplinary lens that engages fields as wide-ranging as economics and literature, students will engage in trans-historical, cross-cultural exploration of freedom and justice and the various ways different peoples have attempted to put them into practice. Students will engage tools to analyze the relationship between these concepts and the structure of identity and its material effects.
FJS 498	Enacting Freedom and Justice	Engages students in work that reflects upon and extends what they have studied to serve community needs. Produce original intellectual and/or creative work in the service of a designated community on issues related to faculty research or service that enables greater freedom and justice for all.

*Graduate-Level Courses

		Activities will include reading scholarly publications, research, or creative activities both independently and with the faculty member, attending workshops, writing, and preparation of a community and/or conference presentation.
GEOG 201	Cultural and Historical Geography of the World	A geographic study of the world and the basic relationship between the physical environment (including topography, climate, natural vegetation, soils, drainage patterns, etc.) and the cultural aspects (including political, social, economic, urban and rural life, etc.) of the major realms or regions of the world. Includes a detailed study of selected regions.
HIST 342	Environmental History (CL ESRM 342)	Examines the historical interaction between humans and their environment. Special attention will be paid to the transformations of environments in the Americas and Europe.
PHYS 344	Energy and Society (CL CHEM 344)	Survey of the physical, chemical, and engineering principles involved in the production of energy from current and potential sources and the economic, environmental, and political issues surrounding energy production. The course will also examine factors that influence worldwide energy policy.
POLS 340	Politics and the Environment (CL ESRM 340)	Exploration of environmental politics in both the international and domestic contexts
POLS 345	Science and Public Policy (CL BIOL 345)	Examines the relationship between science, politics, and public policy and prepares students to make informed decisions concerning the societal implications of many rapidly advancing avenues of scientific research.
SOC 355	Environmental Sociology	This course explores the relationship between society and the environment. It centers on three processes: how human activity impacts the natural environment how environmental destruction disproportionately affects poor communities of color and how efforts to protect the environment can reflect and reproduce existing power hierarchies. The themes discussed in this course complement other sociological topics, including classical theory, inequality, globalization, and the social construction of scientific knowledge. Students will analyze research methods and apply environmental sociological concepts to multiple empirical contexts.
UNIV 492	Sustainability in Campus Infrastructure	Supervised work and study involving sustainability in campus infrastructure. All students are required to attend the Sage Research Symposium, or similar conference, to present a talk or poster upon completion.

*Graduate-Level Courses