

UC San Diego Sustainability Course Inventory 2014-2017

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Department	Course #	Units	Level	Sustainability Course (SC) or Includes Sustainability (IC)	Course Title	Description
Anthropology	ANAR 118	4	UG	IC	Archaeology of the UCSD Campus	Our campus houses some of the earliest human settlements in North America. This course reviews the archaeology, climate, and environment of the sites and outlines research aimed at understanding the lives of these early peoples.
Anthropology	ANAR 140	4	UG	IC	The Foundation for Social Complexity in the Near East	The time period under consideration encompasses the shift from generalized hunting and gathering through complex hunter-gatherers to large-scale agricultural communities. Affects the environment and human interaction.
Anthropology	ANAR 153	4	UG	IC	The Mysterious Maya	The archaeology, anthropology, and history of the Maya civilization, which thrived in Mexico and Central America from 1000 BC, until the Spanish conquest. Includes how the Mayans affected the environment and how the environment affects the site today.
Anthropology	ANAR 163	4	UG	IC	Evolution of Technology	This course examines their growth across six millennia—complex, largely indeterminate, and marked by irregular spurts of acceleration.
Anthropology	ANAR 182	4	UG	IC	Origins of Agriculture and Sedentism	Varying theoretical models and available archaeological evidence are examined to illuminate the socio-evolutionary transition from nomadic hunter-gathering groups to fully sedentary agricultural societies in the Old and New World. Provides the long chronological record needed for investigating human and social evolution. The theories and methods used in this field are examined.
Anthropology	ANBI 114	4	UG	IC	Methods in Primate Conservation	Primate (and other vertebrate) conservation involves a variety of methods: field (e.g., population and habitat assessment), computer (e.g. population genetic models), and increasingly the web (e.g. interactive GIS and databases). Course takes problem-solving approach to learning some of these methods. Recommended preparation: ANBI 132/BIEB 176. Prerequisites: ANTH 42 or equivalent; upper-division standing.
Anthropology	ANBI 132 (Cross-listed as BIEB 176)	4	UG	SC	Conservation and the Human Predicament	Interdisciplinary discussion of the human predicament, biodiversity crisis, and importance of biological conservation. Examines issues from biological, cultural, historical, economic, social, political, and ethical perspectives emphasizing new approaches and new techniques for safeguarding the future of humans and other biosphere inhabitants.
Anthropology	ANBI 146	4	UG	IC	Stable Isotopes in Ecology	The stable isotopes of carbon, nitrogen, oxygen, and hydrogen in animal tissues, plant tissues, and soils indicate aspects of diet and ecology. The course will introduce students to this approach for reconstructing paleo-diet, paleo-ecology, and paleo-climate.
Anthropology	ANSC 108	4	UG	IC	Tourism and Global Culture	This course examines structures of interaction between tourists and communities they visit. Includes the effects of tourism upon the environment.
Anthropology	ANSC 145	4	UG	IC	Indigenous People of North America	This course addresses: 1) Diversity among traditional Native American cultures with respect to social organization, religion, environmental adaptation, subsistence, and reaction to colonial conquest and domination; and, 2) Contemporary social issues including tribal sovereignty, religious freedom, health, education, gambling, and repatriation of artifacts/remains.
Anthropology	ANSC 147	4	UG	SC	Global Health and the Environment	Examines interactions of culture, health, and environment.
Anthropology	ANSC 160	4	UG	SC	Nature, Culture, and Environmentalism	Course examines theories concerning the relation of nature and culture. Particular attention is paid to explanations of differing ways cultures conceptualize nature.

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Anthropology	ANSC 160	4	UG	SC	Nature, Culture and Environmentalism	Course examines theories concerning the relation of nature and culture. Particular attention is paid to explanations of differing ways cultures conceptualize nature. Along with examples from non-western societies, the course examines the western environmental ideas embedded in contemporary environmentalism. [Formerly known as ANGN 160.] Credit not allowed for both ANGN 160 and ANSC 160. Prerequisites: upper-division standing.
Anthropology	ANSC 169	4	UG	IC	Culture and Environment: Research Seminar and Practicum	Examines the role of culture in the way people perceive and interact with the natural environment.
Anthropology	ANSC 169	4	UG	IC	Culture and Environment: Research Seminar and Practicum	Examines the role of culture in the way people perceive and interact with the natural environment. Combines reading of select anthropological studies with training in ethnographic research methods. Students develop a research project and analyze data. Limit: fifteen students. Prerequisites: upper-division standing or consent of instructor.
Anthropology	ANTH 101	4	UG	IC	Foundations of Social Complexity	Course examines archaeological evidence for three key “tipping points” in the human career: (1) the origins of modern human social behaviors, (2) the beginnings of agriculture and village life, and (3) the emergence of cities and states. Includes the beginning to human interaction with the environment.
Anthropology	ANTH 185	4	UG	SC	Middle East Desert Ecology	Examines how cultural systems interact with deserts by examining technology, economic organization, kinship and religion in relation to environmental variables through time.
Anthropology	ANTH 21	4	UG	IC	Race and Racisms	Insights that examine how notions of race and ethnicity structure contemporary societies.
Anthropology	ANTH 23	4	UG	IC	Debating Multiculturalism: Race, Ethnicity, and Class in American Societies	This course focuses on the debate about multiculturalism in American society. It examines the interaction of race, ethnicity, and class, historically and comparatively, and considers the problem of citizenship in relation to the growing polarization of multiple social identities.
Anthropology	ANTH 252	4	G	SC	The Ethnography of Modernity	This seminar focuses on ethnographic representations of modernity, exploring such topics as globalization, mass media, consumerism, gender and modernity, modern religious movements, and theories of modernity. Includes modernity of sustainability and eco-friendliness.
Anthropology	ANTH 87	4	UG	IC	Freshman Seminar	This course explores an intellectual topic with faculty, which can often be the interaction between people and their environment.
Bioengineering	BENG 1	1	UG	IC	Introduction to Bioengineering	An introduction to the central topics of bioengineering in a seminar format. The principles of problem definition, team design, engineering inventiveness, information access, engineering standards, communication, ethics, and social responsibility will be emphasized. P/NP grading only.
Bioengineering	BENG 247C (Cross-listed with ECE 247C)	4	G	IC	Bionanotechnology	Topics include: nanosensors and nanodevices for both clinical diagnostics and biowarefare (bioterror) agent detection; nanostructures for drug delivery; nanoarrays and nanodevices; use of nanoanalytical devices and systems; methods and techniques for modification or functionalization of nanoparticles and nanostructures with biological molecules; nanostructural aspects of fuel cells and biofuel cells; potential use of DNA and other biomolecules for computing and ultra-high-density data storage.

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Department	Course #	Units	Level	Sustainability Course (SC) or Includes Sustainability (IC)	Course Title	Description
Biology	BIBC 140	4	UG	IC	Introduction to Biofuels	Course will provide an overview of the growing field of biofuels by introducing the basics of renewable biofuel production, including the chemistry of biofuels, the biology of important feedstocks, and the biochemical advances for the next generation of biofuels
Biology	BGGN 204	3	G	IC	Topics in Community and Population Ecology	This course teaches a different topic each quarter on the theoretical or conceptual side of community and population ecology. Students will read materials in depth, attend weekly discussions, and explore theories and models with statistical, analytical, and algorithmic tools of the trade. Prerequisite: graduate standing or consent of instructor. (S/U grades only) (Quarter offered varies and course is not offered every year.)
Biology	BGGN 205	2	G	IC	Communicating Science to the Public	Learn effective ways of communicating science to nonscientists. Develop an understanding of how people's views of science and background knowledge can influence their learning, and develop methods to tailor communication for different audiences. May include communicating about current sustainability efforts and the energy crisis.
Biology	BGGN 213	3	G	IC	Topics in Conservation Biology	Provides in depth coverage of topics in population genetics and ecology, community ecology, biogeography, human ecology, and ecosystem management relevant to conservation biology. Topics vary from year to year and have included pedigree analysis, inbreeding depression, minimum viable population size, problems of overabundance, fragmented populations, key-stone species, in-situ and ex-situ conservation techniques. One two-hour meeting weekly. Prerequisite: graduate standing or consent of instructor.
Biology	BGRD 220-	1	G	IC	Research Discussion in Advanced Evolutionary Biology	Presentations of new research results and discussions of closely related published reports. All students are expected to report on their own research findings each quarter. Prerequisite: none for graduate students. Undergraduates must be seniors or enrolled in BISP 199.
Biology	BGRD 221	1	G	IC	Research Discussion in Behavioral Ecology	Presentations of new research results and discussions of closely related published reports. All students are expected to report on their own research findings each quarter. Prerequisite: none for graduate students. Undergraduates must be seniors or enrolled in BISP 199.
Biology	BGRD 223	1	G	IC	Research Discussion in Ecology	Presentations of new research results and discussions of closely related published reports. All students are expected to report on their own research findings each quarter. Prerequisite: none for graduate students. Undergraduates must be seniors or enrolled in BISP 199.
Biology	BGRD 224	1	G	IC	Research Discussion in Plant Population Biology	Presentations of new research results and discussions of closely related published reports. All students are expected to report on their own research findings each quarter. Prerequisite: none for graduate students. Undergraduates must be seniors or enrolled in BISP 199.
Biology	BGRD 226	1	G	IC	Research Discussion in Conservation	Presentations of new research results and discussions of closely related published reports. All students are expected to report on their own research findings each quarter. Prerequisite: none for graduate students. Undergraduates must be seniors or enrolled in BISP 199.

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Biology	BGSE 200	1	G	IC	Seminar in Biology	Invited speakers from the U.S. and abroad, who are leaders in various aspects of biological research, describe their current research. May include research of the biology of the environment.
Biology	BGSE 203	1	G	IC	Seminar in Population Biology	Invited speakers from the U.S. and abroad, who are leaders in various aspects of biological research, describe their current research. May include research of the biology of the environment.
Biology	BIBC 130	4	UG	IC	Marine Biochemistry	Biochemical mechanisms of adaptation in organisms to the marine environment. Special emphasis will be on the effects of pressure, temperature, salinity, oxygen, and light on the physiology and biochemistry. Prerequisite: BIBC 102 or consent of instructor.
Biology	BICD 120	4	UG	IC	Fundamentals of Plant Biology	An introduction to the biology of plants. Basic principles of plant anatomy, physiology, development, and diversity are covered as well as specialized topics, including plant genetic engineering, plant disease and stress, medicinal plants, plants and the environment, and sustainable agriculture. Prerequisites: BILD 1 and 2.
Biology	BIEB 102	4	UG	IC	Introductory Ecology - Organisms and Habitat	This course emphasizes principles shaping organisms, habitats, and ecosystems. Topics covered include population regulation, physiological ecology, competition, predation, and human exploitation. This will be an empirical look at general principles in ecology and conservation with emphasis on the unique organisms and habitats of California. Prerequisite: BILD 3 or equivalent.
Biology	BIEB 130	4	UG	IC	Marine Conservation Biology	Course integrates principles of ecology and marine biology to examine marine biodiversity loss resulting from over-exploitation, habitat loss, invasion, climate change, and pollution. Course examines consequences of biodiversity loss to marine ecosystems and discusses the efficacy of various management regimes. Conservation problems facing the world's oceans with an emphasis on issues important for coastal California will be discussed.
Biology	BIEB 132	4	UG	IC	Introduction to Marine Biology	Overview of marine organisms and their adaptations to sea life. Selected examples of physiological, behavioral, and evolutionary adaptations in response to the unique challenges of a maritime environment. Prerequisite: BILD 3.
Biology	BIEB 134	4	UG	IC	Introduction to Biological Oceanography	Basis for understanding the ecology of marine communities. The approach is process-oriented, focusing on major functional groups of organisms, their food-web interactions and community responses to environmental forcing, and contemporary issues in human and climate influences. Prerequisite: upper-division standing; BILD 3 is recommended.
Biology	BIEB 140	4	UG	IC	Biodiversity	An introduction to the patterns of geographic distribution and natural history of plants and animals living in terrestrial and marine ecosystems. We will explore: ecological and evolutionary processes responsible for generating and maintaining biological diversity; and the nature of extinction both in past and present ecosystem. Prerequisite: BILD 3.
Biology	BIEB 143	4	UG	IC	Computer Modeling in Evolution and Ecology	An introduction to computer modeling in evolution and ecology. Includes observation of the environment and modelling.
Biology	BIEB 144	4	UG	IC	Quantitative Ecology and Conservation	Introduction to mathematical and statistical tools for prediction of deterministic and stochastic ecological systems, including age-structured population growth; population regulation; interspecific interaction; species diversity. Conservation biology topics include sustainable harvesting; metapopulation dynamics; extinction; case studies of endangered species. Prerequisite: BILD 3; BIEB 100 and BIEB 102 recommended.

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Biology	BIEB 174	4	UG	IC	Ecosystems and Global Change	Course will teach the principles of terrestrial ecosystem ecology, and will use examples from recent research to help students understand how global environmental changes are altering processes from leaf-level ecophysiology to global cycling of carbon, water, and nutrients.
Biology	BILD 16	4	UG	IC	History of Life	Life has a very long history on earth and this course will chronicle patterns of biological diversity from its origin over 3 billion years ago to the present day. Topics covered will include methods for reconstructing the history of life on this planet, the origin and evolution of major groups of plants and animals, dinosaur paleobiology, past environmental changes and their effects on species and communities, and extinctions. We will also explore how insights from the past can be used to understand how present and future environmental changes will impact biological diversity. This course is designed for non-biology majors.
Biology	BILD 18	4	UG	SC	Human Impact on the Environment	Course will focus on issues such as global warming, species extinction, and human impact on the oceans and forests. History and scientific projections will be examined in relation to these events. Possible solutions to these worldwide processes and a critical assessment of their causes and consequences will be covered. Prerequisites: none.
Biology	BILD 3	4	UG	IC	Organismic and Evolutionary Biology	Starting in 2017 included a module/section on climate change and impacts on biology. The first principles of evolutionary theory, classification, ecology, and behavior; a phylogenetic synopsis of the major groups of organisms from viruses to primates. Three hours of lecture and one hour of lab. Prerequisite: none. (Note: E.B.E. majors should complete this course during their first year at UCSD.)
Biology	BIMM 126	4	UG	IC	Marine Microbiology	The role of microorganisms in the oceans: metabolic diversity, methods in marine microbiology, interactions of microbes with other microbes, plants and animals, biogeochemical cycling, pollution and water quality, microbe-mineral interactions, extremophiles. Prerequisite: BIBC 102 and BIMM 120 recommended.
Biology	BIMM 166 (Cross-listed with CHEM 166 and CHEM 266)	4	UG	IC	Environmental and Molecular Toxicology	This course will investigate approaches to study the impact of environmental toxicants on human health. Other modern approaches that are being implemented to detect and remediate environmental toxicants will also be examined. Graduate students will be required to complete an additional paper and/or exam beyond that expected of undergraduate students. Prerequisites: upper-division standing for BIMM 166 and CHEM 166; graduate standing for BGGN 256, BIOM 266, and CHEM 266.
Biomedical Sciences	BIEB 266 (Cross-listed with CHEM 166)	4	G	IC	Environmental and Molecular Toxicology	Molecular and cellular mechanisms underlie the actions of environmental toxicants. This course will investigate approaches to study the impact of environmental toxicants on human health. Other modern approaches that are being implemented to detect and remediate environmental toxicants will also be examined.
Cell & Developmental Biology	BICD 100	4	UG	IC	Genetics	Starting in AY16 includes section(s) on the impact of climate change on genetics. An introduction to the principles of heredity emphasizing diploid organisms. Topics include Mendelian inheritance and deviations from classical Mendelian ratios, pedigree analysis, gene interactions, gene mutation, linkage and gene mapping, reverse genetics, population genetics, and quantitative genetics.

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Chemistry	CHEM 15	4	UG	IC	Chemistry of the Universe	This is a one-quarter, nonmathematical chemistry course for nonscience majors covering the origin of the universe, the elements, and the formation of the solar system. The evolution of the Earth's atmosphere, hydrosphere, geosphere, and biosphere will be covered, as well as contemporary problems in environmental chemistry. Cannot be taken for credit after any other chemistry course.
Chemistry	CHEM 140B, CHEM 140BH and CHEM 143A	4	UG	IC	Organic Chemistry & Lab	Starting in AY16 includes a section on climate change.
Chemistry	CHEM 145	4	UG	IC	Chemistry and Biochemistry of Biofuels	Fundamentals of the chemistry and biochemistry of petroleum and biofuel technologies. This course explores chemical identity and properties, metabolic pathways and engineering, refining processes, and analytical techniques related to current and future biofuels.
Chemistry	CHEM 149A	4	UG	IC	Environmental Chemistry	The chemical basis of air and water pollution, chlorofluorocarbons and the ozone hole, the environmental impact of radioactive waste disposal, mineral resource usage, and nuclear energy. Prerequisite: Chem. 6C or 6CH or equivalent.
Chemistry	CHEM 149B	4	UG	IC	Environmental Chemistry	Agricultural productivity, biological impact on the environment, deforestation, environmental disasters (fires, nuclear winter, and volcanoes), and organic waste handling. Prerequisite: Chem. 149A.
Chemistry	Chem 151	4	UG	IC	Molecules that Changed the World	A look at some of nature's most intriguing molecules and the ability of man to discover, synthesize, modify, and use them. The role of chemistry in society, and how chemical synthesis - the art and science of constructing molecules - shapes our world. Prerequisite: Chem. 140A or equivalent
Chemistry	CHEM 157/257	4	UG/G	IC	Biorganic and Natural Products Chemistry	A comprehensive survey of modern biorganic and natural products chemistry. Topics include biosynthesis of natural products, molecular recognition, and small molecule-biomolecule interactions. Chem 257 students will be required to complete additional course work beyond that expected of students in Chem 157.
Chemistry	CHEM 171	4	UG	IC	Environmental Chemistry I	An introduction to chemical concerns in nature with emphasis on atmospheric issues like air pollution, chlorofluorocarbons and the ozone hole, greenhouse effects and climate change, impacts of radioactive waste, sustainable resource usage, and risks and benefits of energy sources.
Chemistry	CHEM 172	4	UG	IC	Environmental Chemistry II	An introduction to chemical concerns in nature with emphasis on soil and water issues like agricultural productivity, biological impacts in the environment, deforestation, ocean deserts, natural and manmade disasters (fires, nuclear winter, volcanoes), and waste handling.
Chemistry	CHEM 173/273	4	G	IC	Atmospheric Chemistry	Chemical principles applied to the study of atmospheres. Atmospheric photochemistry, radical reactions, chemical lifetime determinations, acid rain, greenhouse effects, ozone cycle, and evolution are discussed. Chem. 273 students will be required to complete additional coursework beyond that expected of students in Chem. 173. Prerequisites: Chem. 6A-B-C, or Chem. 6AH, 6BH and 6CH, or equivalent, or graduate standing.

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Chemistry	CHEM 270A-B-B	2 or 4	G	IC	Current Topics in Environmental Chemistry	Seminar series on the current topics in the field of environmental chemistry. Emphasis is on current research topics in atmospheric, oceanic, and geological environments.
Communication	COCU 148	4	UG	SC	Communication and the Environment	Survey of the communication practices found in environment controversies. The sociological aspects of environmental issues will provide background for the investigation of environmental disputes in particular contested areas, such as scientific institutions, communities, work-places, governments, popular culture, and the media. Prerequisite: COCU 100 or consent of instructor.
Communication	COGR 224	4	G	IC	Geographies of Difference, Exclusion, and Conflict	This course is a critical geography of how territorial environments shape entanglements of power and conflict between dominant and subordinate groups, and how, in turn, such conflict between these actors reshapes spatial landscapes.
Communication	COGR 225A	4	G	IC	Introduction to Science Studies: Part 1	Study and discussion of classic themes and texts in history of science, sociology of science, and philosophy of science, and of work that attempts to develop an interdisciplinary science studies approach.
Communication	COGR 225D	4	G	IC	Introduction to Science Studies: Part 2	Continuing the introduction developed in Part 1, this course examines recent key topics and problem situations in science studies. Emphasis is on recent theoretical perspectives and empirical studies in communication, history, philosophy, and sociology of science and technology, and the interplay between them.
Communication	COGR 240 (Cross-listed with HIGR 273)	4	G	IC	The Culture of Consumption	(Cross-listed with HIGR 273.) This course will explore the development and cultural manifestations of consumerism in the nineteenth and twentieth centuries. Topics will include the rise of museums, the development of mass market journalism and literature, advertising, and the growth of commercial amusements. Readings will focus primarily, but not exclusively, on the United States. Students will be encouraged to think comparatively.
Communication	COGR 241	4	G	IC	Geography and Communication	Geographies as media of political cultural communication. Not simply mapping but also territorial engineering as a way of constituting geographical significance. Cross-mapping practices—intersecting representational practices—as political forms of communication. Geographies as visual practices of power. Prerequisites: graduate standing or consent of instructor.
Communication	COGR 242	4	G	IC	Globalization	Examination of historical and contemporary reorderings of space, time, and experience through culture and commerce, social movements, war and trade, communication institutions and practices. Considers various disciplinary modes of analyzing the forms of life produced by these processes as well as the possibilities for intervention and transformation.
Communication	COGR 259	4	G	IC	Space, Place, and Media	The course focuses on built environments and the production of space from an interdisciplinary, perspective, using the critical and methodological tools of communication, anthropology, geography, history, psychology, political science, and urban studies.
Communication	COHI 135	4	UG	IC	Language and Globalization	The interaction of language and culture in human communication. New and old languages, standard and dialect, dominant and endangered, are the special focus. Selected languages as examples of how languages exist in contemporary contexts. Prerequisite: COHI 100 or consent of instructor.

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Communication	COMM 100C	4	UG	IC	Social Formations	A critical introduction to structures of communication formed across the intersections of the state, economy, and civil society. Includes historical survey of communication industries, legal and policy-based arenas, civic and political organizations, and other social institutions; and integrates scholarly study with production-oriented engagement.
Communication	COMM 104D	4	UG	IC	CMS: Asia	The development of media systems in Asia, focusing on India and China. Debates over nationalism, regionalism, globalization, new technologies, identity politics, censorship, privatization, and media piracy.
Communication	COMM 104F	4	UG	IC	CMS: Africa	This course will critically examine the role of the mass media in sub-Saharan Africa in the areas of colonial rule, nationalist struggles, authoritarianism, and popular movements.
Communication	COMM 104G	4	UG	IC	CMS: Latin America and the Caribbean	The development of media systems and policies in Latin America and the Caribbean. Debates over dependency and cultural imperialism. The news media and the process of democratization. Development of the regional television industry. Prerequisites: COMM 10.
Communication	COMM 105M	4	UG	IC	CT: Mobile Communications	Movement is central to our lives. This course draws on the latest research into how we travel, trade, and move. Diverse topics will be covered, including kids in cars, the New York subway, and theories of mobility
Communication	COMM 106G	4	UG	IC	CI: Tourism: Global Industry and Cultural Form	The largest industry in the world has far-reaching cultural ramifications. We will explore tourism’s history and its contemporary cultural effects, taking the perspective of the “toured” as well as that of the tourist. Includes the environmental impact of tourism.
Communication	COMM 108D	4	UG	IC	POB: Disability	Cultural and historical ways of defining and understanding disability relative to communication and assistive technologies, including the impact of digital technologies and the Americans with Disabilities Act. Course use of audiovisual texts and writings from fields including science and technology studies, and cultural studies. Prerequisites: COMM 10.
Communication	COMM 108G	4	UG	IC	POB: Gender and Biomedicine	Historical and cultural aspects of media, information, imaging technology use in biomedical research, clinical care, health communication to constructions of gender and identity. We approach the subject through audiovisual texts and writings from fields including science and technology studies and cultural studies. Prerequisites: COMM 10.
Communication	COMM 109D	4	UG	IC	MC: Advertising and Society	Advertising in historical and cross-cultural perspectives. Ideology and organization of the advertising industry; meaning of material goods; gifts in capitalist, socialist, and nonindustrial societies; natures of needs, desires, and whether advertising creates needs, desires; and approaches to decoding the advertising messages. Prerequisites: COMM 10.
Communication	COMM 109P	4	UG	IC	MC: Propoganda and Persuasion	Propaganda, in political-economic, national settings; Soviet Union; Nazi Germany; US World War I and II. Propaganda films, contribution of filmmakers to propoganda campaign. Explore issues in propaganda; persuasive communication; political propoganda; persuasive advertising; public relations; practical, ethical perspectives. Prerequisites: COMM 10.

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Communication	COMM 110M	4	UG	IC	LLC: Communication and Community	This course examines forms of communication that affect people's everyday lives. Focusing on ways that ethnic communities transmit and acquire information and interact with mainstream institutions, we examine a variety of alternative local media, including murals, graffiti, newsletters, and community radio. Prerequisites: COMM 10.
Communication	COMM 111A	4	UG	IC	CCP: Communication and Cultural Production: Introduction	This course examines the products of culture industries (e.g., music, television, fashion, food, landscape, architectural design) to analyze, specifically, how culture is consumed and by whom. How are spectators hailed and audiences fostered and shaped? And what is the role of audiences in fostering and shaping cultural forms and products? Prerequisites: COMM 10.
Communication	COMM 111C	4	UG	IC	CCP: Cities and Space	This course offers an introduction to the production of urban space. Cities are produced by sociocultural shifts wrought by migration, technological changes, new forms of production, globalization, and climate change. How is the landscape or built environment of the city shaped by the combined and often contradictory forces of capital, expert knowledge, social movements, and urban dwellers? Prerequisites: COMM 10.
Communication	COMM 111T	4	UG	IC	CCP: Cultural Politics of Sport	Examine sports as play, performance, competition, an arena where there are politics, culture, power, identity struggles. Establishing the social meanings of sport, we address ethics, race, class, nation, gender, body, science, technology, entertainment industries, commerce, spectatorship, consumption, amateurism, professionalism. Prerequisites: COMM 10.
Communication	COMM 112G	4	UG	IC	IM: Language and Globalization	The interaction of language and culture in human communication. New and old languages, standard and dialect, dominant and endangered are the special focus. Selected languages as examples of how languages exist in contemporary contexts. Prerequisites: COMM 10.
Communication	COMM 114D	4	UG	IC	CSI: New Media, Youth, and Democracy	Does "new media" deliver on its promise to expand access to public participation? We will analyze, produce, and counter narratives about media, youth, and democracy. The course should interest students who care about politics, human development, community engagement, or human computer interaction. Prerequisites: COMM 10.
Communication	COMM 114E	4	UG	IC	CSI: Gender, Labor, and Culture in the Global Economy	This course introduces students to different theories of globalization and of gender. Against this theoretical background, students critically examine the gendered (and racialized) nature of labor in the production of material, social, and cultural goods in the global economy. Prerequisites: COMM 10.
Communication	COMM 114F	4	UG	IC	CSI: Law, Communication, and Freedom of Expression	Examination of the legal framework of freedom of expression in the United States. Covers fundamentals of First Amendment law studying key cases in historical content. Prior restraint, incitement, obscenity, libel, fighting words, public forum, campaign finance, commercial speech, and hate speech are covered. Prerequisites: COMM 10 or DOC 2 or POLI 40.
Communication	COMM 114G	4	UG	IC	CSI: Gender and Science	This course will focus on arguments about cognitive differences between men and women in science. We will review current arguments about essential differences, historical beliefs about gender attributes and cognitive ability, and gender socialization into patterns of learning in school. Prerequisites: COMM 10.

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Department	Course #	Units	Level	Sustainability Course (SC) or Includes Sustainability (IC)	Course Title	Description
Communication	COMM 114I	4	UG	IC	CSI: Media Technologies and Social Movements	Course explores the roles of media technologies in activist campaigns, social movements. Blending theory, historical case studies, and project-based group work, students will investigate possibilities and limitations of attempts to enroll new and old media technologies in collective efforts to make social change. Prerequisites: COMM 10.
Communication	COMM 114J	4	UG	SC	CSI: Food Justice	Examine food justice from multiple analytical and theoretical perspectives: race, class, diversity, equity, legal-institutional, business, ethical, ecological, scientific, cultural, and socio-technical. Compare political strategies of food justice organizations/movements aimed at creating healthy and sustainable food systems locally and globally. Prerequisites: COMM 10.
Communication	COMM 114N	4	UG	IC	CSI: Communication and the Law: The Body in Law	This course concentrates on one area of law specific to the concerns of communication: the relationship between privacy, personhood, and bodily autonomy. Using a combination of legal texts, court cases, and theoretical literature, we will consider the changing nature of each dimension of this relationship as the courts have been called upon to adjudicate conflicting claims and visions in matters of reproduction, sexual identity, genetic engineering, and the commodification of body parts. Prerequisites: COMM 10.
Communication	COMM 114T	4	UG	IC	CSI: Science Communication	Examine science communication as a profession and unique form of storytelling. Identify who does science communication, how, why, and with what impacts. Highlight science communication's role in democracy, power, public reason, technological trajectories, the sustainability transition, and shifting university-community relations. Prerequisites: COMM 10.
Communication	COMM 120M	4	UG	IC	AMP: Media Stereotypes	An examination of how the media present society's members and activities in stereotypical formats. Reasons for and consequences of this presentation are examined. Student responsibilities will be (a) participation in measurement and analysis of stereotype presentations. (b) investigating techniques for assessing both cognitive and behavioral effects of such scripted presentations on the users of media. Students will not receive credit for COMT 105 and COMM 120M. Prerequisites: COMM 10 and two of COMM 100A, 100B, 100C.
Communication	COMM 123	4	UG	IC	Communication, Dissent and Social Movement	Emergence of dissent in different societies, and the relationship of dissent to movements of protest and social change. Movements studied include media concentration, antiwar, antiglobalization, death penalty, national liberation, and labor. Survey of dissenting voices from Tolstoy and Naomi Klein seeking to explain the relationship of ideas to collective action and its outcomes. Prerequisite: COSF 100 or consent of instructor.
Communication	COMM 125	4	UG	IC	Transparent Society	How have politics, media, and society made visible features of life that were once hidden? From the women's health movement to gay liberation to laws requiring public disclosure, frankness challenges civility, privacy, and taste. How can this be understood? Prerequisites: COMM 10 and one from COMM 100A, 100B, 100C.
Communication	COMM 127	4	UG	IC	Problem of Voice	This course will explore the problem of self-expression for members of various ethnic and cultural groups. Of special interest is how writers find ways of describing themselves in the face of others' sometimes overwhelming predilection to describe them. Prerequisites: COMM 10 and one from COMM 100A, 100B, 100C.

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Communication	COMM 128	4	UG	IC	Education and Global Citizenship	Concepts, possibilities, and dilemmas inherent in the notion of global citizenship. Formulate goals and instructional strategies for global education, expected competence of individuals within society. Examine roles that communication and curriculum play in the formation of identity, language use, and civic responsibility of global citizens. Prerequisites: COMM 10 and one from COMM 100A, 100B, 100C.
Communication	COMM 129	4	UG	IC	Race, Nation, and Violence in Multicultural California	How does media representation of race, nation, and violence work? Taking multicultural California as our site, we will explore how social power is embedded in a variety of visual texts, and how media not only represents but also reproduces conflict. Prerequisites: COMM 10 and one from COMM 100A, 100B, 100C.
Communication	COMM 131	4	UG	IC	Communication, Dissent, and the Formation of Social Movements	Emergence of dissent in different societies, and relationship of dissent to movements of protest and social change. Movements studied include media concentration, antiwar, antiglobalization, death penalty, national liberation, and labor. Survey of dissenting voices seeking to explain the relationship of ideas to collective action and outcomes. Prerequisites: COMM 10 and one from COMM 100A, 100B, 100C.
Communication	COMM 133	4	UG	IC	Television and Citizenship	Television is a contested site for negotiating the rationales of inclusion and exclusion associated with citizenship and national belonging. Historical and contemporary case studies within international comparative contexts consider regulation, civil rights, cultural difference, social movements, new technologies, and globalization. Prerequisites: COMM 10 and one from COMM 100A, 100B, 100C.
Communication	COMM 135	4	UG	IC	Television and Citizenship	Television is a contested site for negotiating the rationales of inclusion and exclusion associated with citizenship and national belonging. Historical and contemporary case studies within international comparative contexts consider regulation, civil rights, cultural difference, social movements, new technologies, and globalization. Prerequisites: COMM 10 and one from COMM 100A, 100B, 100C.
Communication	COMM 138	4	UG	IC	Black Women, Feminism, and Media	This course examines the challenges that arise in using feminist theory to understand black women’s experience in Africa and the United States. It also looks at the mass media and popular culture as arenas of black feminist struggle. Prerequisites: COMM 10 and one from COMM 100A, 100B, 100C.
Communication	COMM 152	4	UG	IC	Global Economy and Consumer Culture	This course critically examines social and economic forces that shape the making of this new global consumer culture by following the flows of consumption and production between the developed and developing worlds in the 1990s. We will consider how consumers, workers, and citizens participate in a new globalized consumer culture that challenges older distinctions between the First and the Third World. In this course, we will focus on the flows between the United States, Asia, and Latin America. Prerequisites: COMM 10 and one from COMM 100A, 100B, 100C.
Communication	COMM 155	4	UG	IC	Latino Space, Place, and Culture	Develop a critical understanding of the history, politics, and poetics of the Latino barrio as a distinct urban form. Course covers key concepts such as the production of space, landscapes of power, spatial apartheid, everyday urbanism, urban renewal, and gentrification. Prerequisites: COMM 10 and one from COMM 100A, 100B, 100C.

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Communication	COMM 159	4	UG	IC	Staging the Other	Explores tourism encounters around the world to question the discourses, imaginaries, and social practices involved in the construction, consumption, and reproduction of stereotypical representations of otherness (place, nature, culture, bodies). Prerequisites: COMM 10 and one from COMM 100A, 100B, 100C.
Communication	COMM 160	4	UG	IC	Political Economy and International Communication	The character and forms of international communications. Emerging structures of international communications. The United States as the foremost international communicator. Differential impacts of the free flow of information and the unequal roles and needs of developed and developing economies in international communications. Prerequisites: COMM 10 and one from COMM 100A, 100B, 100C.
Communication	COMM 163	4	UG	IC	Concepts of Freedom	This course examines some of the changing cultural, social, technological, and political meanings; practices; and aspirations that together constitute what is and has been called freedom. Prerequisites: COMM 10 and one from COMM 100A, 100B, 100C.
Communication	COMM 164	4	UG	IC	Behind the Internet: Invisible Geographies of Power and Inequality	This course aims to unveil the vast and largely hidden infrastructures silently shaping how digital communication take place in contemporary societies as well as the visible and invisible geographic of power and inequality these infrastructures are helping to create. Prerequisites: COMM 10 and one from COMM 100A, 100B, 100C.
Communication	COMM 171	4	UG	IC	Environmental Communication	Survey of the communication practices found in environment controversies. The sociological aspects of environmental issues will provide background for the investigation of environmental disputes in particular contested areas, such as scientific institutions, communities, workplaces, governments, popular culture, and the media.
Communication	COMM 175	4	UG	IC	Cultures of Consumption	This course examines the cultural politics of consumption across time and cultures through several concepts: commodity fetishism; conspicuous consumption; taste, class, and identity formation; consumption’s psychological, phenomenological, and poetic dimensions; and contemporary manifestations of globalization and consumer activism. Prerequisite: COCU 100 or consent of instructor.
Communication	COMM 177	4	UG	IC	Culture, Domination, and Resistance	Explores theories and narratives of cultural power, contemporary practices of resistance. Texts from a wide range of disciplines consider how domination is enacted, enforced, and what modes of resistance are employed to contend with uses and abuses of political power. Prerequisites: COMM 10 and one from COMM 100A, 100B, 100C.
Communication	COMM 179	4	UG	SC	Global Nature, Global Culture	Considers globalization’s impact on concepts of nature in and through media texts, information systems, circulation of consumer goods and services, the emergence of global brands, science, health initiatives, environmental media activism, technology transfer in the twentieth and early twenty-first centuries. Prerequisite: COSF 100 or COCU 100 or COHI 100 or consent of instructor.
Communication	COMM 181	4	UG	SC	Globalization and Uneven Development	Explores the uneven nature of globalization and its geographical expression in the built environment by looking into gentrification processes and community change in service-oriented economies in the global north as well as into production offshoring and disputes over development in the global south. Prerequisites: COMM 10 and one from COMM 100A, 100B, 100C.

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Communication	COMM 183	4	UG	SC	Global Economy and Consumer Culture	This course critically examines social and economic forces that shape the making of this new global consumer culture by following the flows of consumption and production between the developed and developing worlds in the 1990s. We will consider how consumers, workers, and citizens participate in a new globalized consumer culture that challenges older distinctions between the First and the Third World. In this course, we will focus on the flows between the United States, Asia, and Latin America. Prerequisites: COMM 10 and one from COMM 100A, 100B, 100C.
Communication	COMM 184	4	UG	SC	Global Nature, Global Culture	Considers globalization's impact on concepts of nature in and through media texts, information systems, circulation of consumer goods and services, the emergence of global brands, science, health initiatives, environmental media activism, technology transfer in the twentieth and early twenty-first centuries. Prerequisites: COMM 10 and one from COMM 100A, 100B, 100C.
Communication	COGR 200A	4	G	IC	Introduction to the Study of Communication as Social Force	This course focuses on the political economy of communication and the social organization of key media institutions. There will be both descriptive and analytical concerns. The descriptive concern will emphasize the complex structure of communication industries and organizations, both historically and cross-nationally. The analytic focus will examine causal relationships between the economic and political structure of societies, the character of their media institutions, public opinion, and public attitudes and behaviors expressed in patterns of voting, consuming, and public participation. The nature of evidence and theoretical basis for such relationships will be critically explored. Prerequisites: graduate standing or consent of instructor.
Communication	COGR 210	4	G	IC	Information and Society	The social, legal, and economic forces affecting the evolution of mass communication institutions and structure in the industrialized world. Differential impacts of the free flow of information and unequal roles and needs of developed and developing economies. Prerequisites: graduate standing or consent of instructor.
Communication	COGR 225	4	G	IC	Introduction to Science Studies: Part 1	Study and discussion of classic themes and texts in history of science, sociology of science, and philosophy of science, and of work that attempts to develop an interdisciplinary science studies approach. Prerequisites: enrollment in the Science Studies Program or consent of instructor.
Communication	COGR 225D	4	G	IC	Introduction to Science Studies: Part 2	Continuing the introduction developed in Part 1, this course examines recent key topics and problem situations in science studies. Emphasis is on recent theoretical perspectives and empirical studies in communication, history, philosophy, and sociology of science and technology, and the interplay between them. Prerequisites: completion of COGR 225A, HIGR 238, Phil 209A, or SOCG 255A or consent of instructor.

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Communication	COGR 240 (Cross-listed with HIGR 273)	4	G	IC	The Culture of Consumption	This course will explore the development and cultural manifestations of consumerism in the nineteenth and twentieth centuries. Topics will include the rise of museums, the development of mass market journalism and literature, advertising, and the growth of commercial amusements. Readings will focus primarily, but not exclusively, on the United States. Students will be encouraged to think comparatively. Prerequisites: graduate standing or consent of instructor.
Communication	COGR 242	4	G	IC	Globalization	Examination of historical and contemporary reorderings of space, time, and experience through culture and commerce, social movements, war and trade, communication institutions and practices. Considers various disciplinary modes of analyzing the forms of life produced by these processes as well as the possibilities for intervention and transformation. Prerequisites: graduate standing or consent of instructor.
Communication	COGR 245	4	G	IC	Science and Technology Studies and Communication	Course explores human-technology interaction, social constructivism, actor-network theory, gender and technology, critical and cultural studies of science and technology, and public understandings of science and technology. Emphasis on what STS can contribute to the study of media and communication. Prerequisites: graduate standing or consent of instructor.
Communication	COGR 252	4	G	IC	Race and Racism	Seminar focuses on race as a social, phenomenal, historical, and political formation. The seminar will address the historical emergence and theorization of race and the contemporary ways in which race/racism is a modern principle of social division, exclusion, and political mobilization. Prerequisites: graduate standing or consent of instructor.
Communication	COGR 262	4	G	IC	Geographies of Difference, Exclusion and Conflict	This seminar focuses on how differences between groups of people, and the patterns of power, exclusion and conflict resulting from such differences, become embedded in geographical landscapes. The course examines place-based sites of difference, power, and conflict beginning with the map, and moving through such spatial environments as the body, the city, the nation, the landscape, the reservation, culminating in borderland conflict here in our own backyard. Prerequisites: graduate standing or consent of instructor.
Communication	COGR 278 (Cross-listed with EDS 278)	4	G	IC	Talking Culture, Culture Talking: Voices of Diversity	This course explores the discourse of culture in American society and the problem of silenced or unheard voices. The interaction of individual and collective voice, language, and identity are discussed as they bear on the ways that culture moves through important social institutions such as schools. Of particular interest are issues of teaching, learning, displacement, inclusion, marginality, and the speaking center. Prerequisites: graduate standing or consent of instructor.
Culture, Art, and Technology	CAT 1	4	UG	IC	Culture, Art, and Technology 1	A global historical overview of principles and patterns of human development, with emphasis on technology and the arts. Traces causes and consequences of cultural variation. Explores interactions of regional environments (geographic, climatic, biological) with social and cultural forces.

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Culture, Art, and Technology	CAT 2	6	UG	IC	Culture, Art, and Technology 2	Fundamental shifts in one area of endeavor can have a profound impact on whole cultures. Examines select events, technologies, and works of art that revolutionized ways of inhabiting the world.
Culture, Art, and Technology	CAT 3	6	UG	IC	Culture, Art, and Technology 3	Students engage with various interdisciplinary modes of apprehending the near future. Working in teams on community projects, they are challenged to listen and communicate across cultures and develop cogent technological and artistic responses to local problems. Writing and information literacy instruction.
Ecology, Behavior and Evolution	BILD 3	4	UG	IC	Organismic and Evolutionary Biology	Starting in AY16 includes a section on climate change. The first principles of evolutionary theory, classification, ecology, and behavior; a phylogenetic synopsis of the major groups of organisms from viruses to primates.
Economics	ECON 101	4	UG	IC	International Trade	Examines theories of international trade in goods and services as well as international migration and capital flows. The course discusses comparative advantage, motives for trade policies, and the effects of trade barriers and trading blocs on income distribution and welfare. Prerequisites: ECON 1A-B or 2 or 100B or 170B.
Economics	ECON 107	4	UG	IC	Economic Regulation and Antitrust Policy	Detailed treatment of antitrust policy: Sherman Act, price fixing, collusive practices, predatory pricing, price discrimination, double marginalization, exclusive territories, resale price maintenance, refusal to deal, and foreclosure. Theory of regulation and regulatory experience in electrical utilities, oil, telecommunications, broadcasting, etc. Prerequisites: ECON 1A-B or 2 or 100B or 170B; and Math. 10C or 20C.
Economics	ECON 114	4	UG	IC	Economics of Immigration	Impact of immigration on the U.S. economy. Empirical evidence on the labor market and fiscal impacts of immigration. Consequences of U.S. immigration policies on the economy. Prerequisites: ECON 1A-B or ECON 1 and 3.
Economics	ECON 116	4	UG	IC	Economic Development	Introduction to the economics of less developed countries, covering their international trade, human resources, urbanization, agriculture, income distribution, political economy, and environment. Prerequisites: ECON 1A-B or 2 or 100B.
Economics	ECON 125	4	UG	IC	Demographic Analysis and Forecasting	Interaction between economic forces and demographic changes are considered, as are demographic composition and analysis; fertility, mortality, and migration processes and trends. Course emphasizes the creation, evaluation, and interpretation of forecasts for states, regions and subcounty areas. ECON 178 is recommended. Prerequisite: ECON 120B or Math. 181A.
Economics	ECON 130	4	UG	IC	Public Policy	Course uses basic microeconomic tools to discuss a wide variety of public issues, including the war on drugs, global warming, natural resources, health care and safety regulation. Appropriate for majors who have not completed ECON 100A-B-C or ECON 170A-B and students from other departments. Prerequisites: ECON 1A-B or 2 or 100A.
Economics	ECON 131	4	UG	IC	Economics of the Environment	Environmental issues from an economic perspective. Relation of the environment to economic growth. Management of natural resources, such as forest and fresh water. Policies on air, water, and toxic waste pollution. International issues such as ozone depletion and sustainable development.

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Economics	ECON 132	4	UG	IC	Energy Economics	Energy from an economic perspective. Fuel cycles for coal, hydro, nuclear, oil, and solar energy. Emphasis on efficiency and control of pollution. Comparison of energy use across sectors and across countries. Global warming. Role of energy in the international economy.
Economics	ECON 132	4	UG	IC	Energy Economics	Energy from an economic perspective. Fuel cycles for coal, hydro, nuclear, oil, and solar energy. Emphasis on efficiency and control of pollution. Comparison of energy use across sectors and across countries. Global warming. Role of energy in the international economy. Prerequisites: Econ 1 and (Econ 2 or 3 or 100A or 131 or ESYS 103 or MAE 124) and Math 10C or 20C or 31BH.
Economics	ECON 133	4	UG	SC	International Environmental Agreements	Addresses environmental issues that transcend national boundaries, such as climate change, biodiversity loss, over-fishing. Examines why international agreements are required, how they are negotiated and implemented, and studies their effectiveness. Explores whether more effective environmental treaties could be designed. Prerequisites: Econ 2 or 100A.
Economics	ECON 135 (Cross-listed with USP 103)	4	UG	IC	Urban Economics	Economic analysis of why and where cities develop, problems they cause, and public policies to deal with these problems. Determination of urban land rent/use, reasons for suburbanization. Transportation and congestion in cities, zoning, poverty and housing, urban local government. Credit not allowed for both ECON 135 and USP 102. Prerequisites: ECON 1A-B or 2 or 100A; and Math. 10A or 20A.
Economics	ECON 139	4	UG	IC	Labor Economics	Theoretical and empirical analysis of labor markets. Topics include: labor supply, labor demand, human capital investment, wage inequality, labor mobility, immigration, labor market discrimination, labor unions and unemployment. Prerequisites: ECON 1A-B or 2 or 100B.
Economics	ECON 142	4	UG	IC	Behavioral Economics	Course will study economic models in which standard economic rationality assumptions are combined with psychologically plausible assumptions on behavior. We consider whether the new models improve ability to predict and understand phenomena including altruism, trust and reciprocity, procrastination, and self-control. Prerequisites: Econ 109.
Economics	ECON 144	4	UG	SC	Economics of Conservation	Examines conservation of biodiversity from an economic perspective. Topics include valuing biodiversity, defining successful conservation, and evaluating the cost effectiveness of policies such as conservation payments, ecotourism, and privatization. Emphasis on forests, coral reefs, elephants, tigers, and sea turtles. Prerequisites: ECON 1A-B or 2 or 100A.
Economics	ECON 145	4	UG	IC	Economics of Ocean Resources	Economic issues associated with oceans. Economics of managing renewable resources in the oceans, with an emphasis on fisheries, economics of conservation and biodiversity preservation for living marine resources, with an emphasis on whales, dolphins, sea-turtles, and coral reefs. Prerequisites: ECON 1A-B or 2 or 100A.
Economics	ECON 161	4	UG	IC	Global Integration of Latin America	Examines the integration of Latin American and Caribbean countries into the global economy. Topics include trade in agricultural and manufactured goods, regional trade agreements, international capital flows to Latin America, financial vulnerabilities, and policy responses.

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Economics	ECON 162	4	UG	IC	Economics of Mexico	Survey of the Mexican economy. Topics such as economic growth, business cycles, saving-investment balance, financial markets, fiscal and monetary policy, labor markets, industrial structure, international trade, and agricultural policy.
Economics	ECON 163	4	UG	IC	Japanese Economy	Survey of the Japanese economy. Economic growth, business cycles, saving-investment balance, financial markets, fiscal and monetary policy, labor markets, industrial structure, international trade, and agricultural policy.
Economics	ECON 245	4	G	IC	International Trade	This course covers the determinants of the pattern and volume of trade in goods and services, the interaction of international trade with income distribution and economic growth, and commercial policy. The emphasis is on theory, with some empirical illustration and motivation. Prerequisite: consent of instructor.
Economics	ECON 250	4	G	IC	Labor Economics	Theoretical and empirical issues in labor economics. (Previously numbered ECON 236A-B.) Prerequisite: consent of instructor.
Economics	ECON 266	4	G	SC	Economics of Natural Resources	Theoretical and empirical issues in natural resource economics. (Previously numbered ECON 242.) Prerequisite: consent of instructor.
Economics	ECON 267	4	G	IC	Topics in Environmental and Resource Economics	The course will cover any of a variety of topics in environmental and resource economics, including climate change, exhaustible and renewable resources, international environmental agreements, nonmarket valuation, energy economics, and water allocation
Education Studies	EDS 275	4	G	IC	Research in Teaching and Learning: Science	This seminar will address current theories and research on the teaching and learning of science, as well as how research can be used to analyze and foster effective teaching practices.
Education Studies	EDS 282	4	G	IC	Leadership for a Diverse Society	This course will address theories and practices for achieving schools and classrooms that are informed by and built around the participation of diverse communities and cultures. The emphasis is on how leadership intersects with sociohistorical and sociocultural theories that suggest that the organization of schools and instruction is critical to student inclusion and outcomes. A basic premise of this course is that a socially just learning theory begins with using all of the resources and knowledge of families, communities, and cultures in formulating policy and practice. Prerequisites: Joint EdD in Educational Leadership student status.
Education Studies	EDS 283	4	G	IC	Leadership for Organizational Change	This course will present multiple theories of organizational change, explore group processes and identify models of decision making, and analyze human motivation theories. Establishing and nurturing a purpose-driven organization, while dealing with competing demands, will be discussed. A major emphasis in this course is on people as agents of change and on the creation of high-quality ethical and productive workplaces where employees can achieve success and satisfaction, while advancing the mission of the educational organization. Prerequisites: Joint EdD in Educational Leadership student status or consent of instructor.
Eleanor Roosevelt College	ELWR 2A and 2B	4	UG	IC	Entry Level Writing	Starting in 2017 included a module/section on climate change. A seminar-style course in reading and writing required of all Warren College students. The course emphasizes argumentation and critical writing based on sources. Letter grades only. Prerequisites: satisfaction of the UC Entry Level Writing Requirement and must be a Warren College student. Junior/senior standing students need department approval prior to registering.

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Electrical and Computer Engineering	ECE 247A	4	G	IC	Advanced BioPhotonics	Basic physics and chemistry for the interaction of photons with matter, including both biological and synthetic materials; use of photonic radiation pressure for manipulation of objects and materials; advanced optoelectronic detection systems, devices and methods, including time resolved fluorescent and chemiluminescent methods, fluorescent energy transfer (FRET) techniques, quantum dots, and near-field optical techniques; underlying mechanisms of the light sensitive biological systems, including chloroplasts for photosynthetic energy conversion and the basis of vision processes. Cross-listed with BENG 247A. Prerequisite: graduate standing.
Electrical and Computer Engineering	ECE 247C	4	G	IC	BioNanotechnology	Topics include: nanosensors and nanodevices for both clinical diagnostics and biowarfare (bioterror) agent detection; nanostructures for drug delivery; nanoarrays and nanodevices; use of nanoanalytical devices and systems; methods and techniques for modification or functionalization of nanoparticles and nanostructures with biological molecules; nanostructural aspects of fuel cells and bio-fuel cells; potential use of DNA and other biomolecules for computing and ultra-high-density data storage. Cross-listed with BENG 247C. Prerequisite: graduate standing.
Environmental Studies	ENV 30	4	UG	SC	Environmental Issues: Natural Sciences	Examines global and regional environmental issues. The approach is to consider the scientific basis for policy options. Simple principles of chemistry and biology are introduced. The scope of problems includes: air and water pollution, climate modification, solid waste disposal, hazardous waste treatment, and environmental impact assessment.
Environmental Studies	ENV 87	1	UG	IC	Environmental Studies Freshman Seminar	The Freshman Seminar Program is designed to provide new students with the opportunity to explore an intellectual topic with a faculty member in a small seminar setting. Freshman Seminars are offered in all campus departments and undergraduate colleges, and topics vary from quarter to quarter. Enrollment is limited to fifteen to twenty students, with preference given to entering freshmen.
Environmental Studies	ENV 102	4	UG	SC	Selected Topics in Environmental Studies	An interdisciplinary course focusing on one of a variety of topics related to environmental studies such as environmental policy and politics, foreign study in environmental problems, environmental history, nature writers, ethics and the environment. May be repeated three times for credit as topics vary.
Environmental Studies	ENV 110	4	UG	IC	Environmental Law	Explores environmental policy in the United States and the ways in which it is reflected in law. The social and political issues addressed include environmental justice and environmental racism, as well as the role of government in implementing environmental law.
Environmental Studies	ENV 120	4	UG	IC	Coastal Ecology	Explores the diverse ecosystems of coastal San Diego County (salt marsh, rocky intertidal, sandy beach, etc.) in the classroom and in the field with attention to basic principles of field ecology, natural history, and techniques for collecting ecological data. Course and/or materials fee may apply.
Environmental Studies	ENV 130	4	UG	SC	Environmental Issues: Social Sciences	Explores contemporary environmental issues from the perspective of the social sciences. It includes the cultural framing of environmental issues and appropriate social action, the analysis of economic incentives and constraints, and a comparison of policy approaches.

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Environmental Studies	ENV 140 and 141 (Workshop)	4	UG	IC	Wilderness and Human Values	“Wilderness” plays a central role in the consciousness of American environmentalists and serves as focal point for public policies, recreation, and political activism. This course explores its evolving historical, philosophical, ecological, and aesthetic meanings and includes guest speakers and a field component.
Environmental Studies	ENV 192	1	UG	IC	Senior Seminar in Environmental Studies	The Senior Seminar Program is designed to allow senior undergraduates to meet with faculty members in a small group setting to explore an intellectual topic in environmental studies (at the upper-division level). Topics will vary from quarter to quarter. Senior Seminars may be taken for credit up to four times with a change in topic and permission of department. Enrollment is limited to twenty students, with preference given to seniors.
Environmental Studies	ENV 500	4	G	IC	Apprentice Teaching in Environment Studies	A course in which teaching assistants are aided in learning proper teaching methods by means of supervision of their work by the faculty: handling of discussions, preparation and grading of examinations and other written exercises, and student relations.
Environmental Systems	ESYS 10	4	UG	SC	Introduction to Environmental Systems	This course explores the interdisciplinary character of environmental issues through an examination of a particular topic (climate change, for example) from numerous disciplinary perspectives (e.g., biology, chemistry, physics, political science, and economics).
Environmental Systems	ESYS 87	1	UG	IC	Freshman Seminar	The Freshman Seminar Program is designed to provide new students with the opportunity to explore an intellectual topic with a faculty member in a small seminar setting. Freshman Seminars are offered in all campus departments and undergraduate college, and topics vary from quarter to quarter. Enrollment is limited to fifteen to twenty students with preference given to entering freshmen.
Environmental Systems	ESYS 90	1	UG	SC	Perspectives on Environmental Issues	Provides an introduction to environmental systems. Faculty members from departments in the natural sciences, geosciences, and social sciences will offer perspectives in these areas. (F)
Environmental Systems	ESYS 101	1	UG	IC	Environmental Biology	This course surveys biochemical and physiological processes governing the relationship between organisms and their environments, such as those involved in element cycling and cellular homeostasis. The course introduces biological perspectives on human activities ranging from antibiotic use to genetic engineering. Prerequisites: BILD 1 or 2 or equivalent, or consent of instructor. (F)
Environmental Systems	ESYS 102	4	UG	IC	The Solid and Fluid Earth	Earth’s dynamic physical systems interact in complex ways with profound impact on our environment. Processes such as volcanism and weathering enable geochemical exchange between solid and fluid (ocean and atmosphere) systems. Sea level and climate changes interface with tectonic processes. Prerequisites: Math 10A or Math 20A, Chem 6A, Physics 1A or 2A, or consent of instructor. (W)
Environmental Systems	ESYS 103 (Cross-listed with SIO 25 and MAE 124)	4	UG	SC	Environmental Challenges: Science and Solutions	This course explores the impacts of human, social, economic, and industrial activity on the environment. It highlights the central roles in ensuring sustainable development played by market forces, technological innovation, and government regulation on local, national, and global scales. Prerequisites: Math 10A-C or Math 20B or consent of instructor. (S)

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Environmental Systems	ESYS 120	4	UG	IC	Science and Environmental Writing	Course designed to improve the written communication of science majors through frequent writing assignments that develop the practical skills needed to communicate science to lay audiences. Topics include news writing, news releases, grant writing, broadcast script writing, and editorial writing
Environmental Systems	ESYS 150	4	UG	IC	Environmental Perils	An advanced field-oriented course for engineering and science students stressing the geologic basis for environmental perils such as earthquakes, erosion, flooding, and waste disposal. Two one-hour lectures, and a two-hour lab/field trip each week. Prerequisites: Math 10 A-B-C sequence and Physics 1A,AL; 1B,BL; 1C,CL sequence or equivalent. (S)
Environmental Systems	ESYS 190B	4	UG	IC	Environmental Systems Senior Seminar	The seminar provides a venue for the development, presentation, and evaluation of the Environmental Systems Integrative Project. The seminar will include work on research methods as well as paper presentation skills. Prerequisites: Completion of ESYS 190A or ESYS 190A(W) sequence, senior standing and majors only. (S)
Ethnic Studies	ETHN 1	4	UG	IC	Introduction to Ethnic Studies: Land and Labor	This course examines key historical events and debates in the field that center around land and labor, including disputes about territory and natural resources, slavery and other forms of unfree labor, labor migration and recruitment, and US and transnational borders.
Ethnic Studies	ETHN 103	4	UG	IC	Environmental Racism	This course will examine the concept of environmental racism, the empirical evidence of its widespread existence, and the efforts by government, residents, workers, and activists to combat it. We will examine those forces that create environmental injustices in order to understand its causes as well as its consequences. Students are expected to learn and apply several concepts and social scientific theories to the course material.
Ethnic Studies	ETHN 104	4	UG	IC	Race, Space, and Segregation	Through in-depth studies of housing segregation, urban renewal and displacement, neighborhood race effects, and the location of hazards and amenities, this course examines how space becomes racialized and how race becomes spatialized in the contemporary U.S.
Ethnic Studies	ETHN 105 (Cross-listed with USP 104)	4	UG	IC	Ethnic Diversity and the City	This course will examine the city as a crucible of ethnic identity exploring both the racial and ethnic dimensions of urban life in the U.S. from the Civil War to the present. (Cross-listed with USP 104.)
Ethnic Studies	ETHN 108	4	UG	IC	Race Culture and Social Change	Aggrieved groups often generate distinctive forms of cultural expression by turning negative ascription into positive affirmation and by transforming segregation into congregation. This course examines the role of cultural expressions in struggles for social change by these communities inside and outside the U.S. (Cross-listed with MUS 151.)
Ethnic Studies	ETHN 109	4	UG	IC	Race and Social Movement	This course explores collective mobilizations for resources, recognition, and power by members of aggrieved racialized groups, past and present. Emphasis will be placed on the conditions that generate collective movements, the strategies and ideologies that these movements have developed, and on the prospect for collective mobilization for change within aggrieved communities in the present and future.

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Ethnic Studies	ETHN 110	4	UG	IC	Cultural Worldviews of Indigenous America	Places Native Americans/indigenous people's ways of living, knowing, and understanding the world in relation to settler-immigrant societies in North America. Students gain analytical tools for thinking about world views through themes of cosmology, land, kinship, and identity formation.
Ethnic Studies	ETHN 117	4	UG	IC	Organic Social Movements	Examination of local responses to global change and social disruption through the examination of organic movements in indigenous societies. In-depth analysis of the Kuna Indians of San Blas, Panama; Maya-Zapatistas of Chiapas, Mexico; and Micronesians of the western Pacific.
Ethnic Studies	ETHN 129	4	UG	IC	Asian and Latina Immigrant Workers in the Global Economy	This course will explore the social, political, and economic implications of global economic restructuring, immigration policies, and welfare reform on Asian and Latina immigrant women in the United States. We will critically examine these larger social forces from the perspectives of Latina and Asian immigrant women workers, incorporating theories of race, class, and gender to provide a careful reading of the experiences of immigrant women on the global assembly line. (Cross-listed with USP 135.)
Ethnic Studies	ETHN 142	4	UG	IC	Medicine, Race, and the Global Politics of Inequality	Globalization fosters both the transmission of AIDS, cholera, tuberculosis, and other infectious diseases and gross inequalities in the resources available to prevent and cure them. This course focuses on how race, ethnicity, gender, sexuality, class, and nation both shape and are shaped by the social construction of health and disease worldwide.
Ethnic Studies	ETHN 152	4	UG	IC	Law and Civil Rights	In this course students explore the relationship between race, class, and law as it applies to civil rights both in an historical and a contemporary context. Topics include racism and the law, history of the 14th Amendment, equal protection, school desegregation, and affirmative action.
Family & Preventative Medicine	FPMU 40	4	UG	IC	Introduction to Public Health	This course provides an introduction to the infrastructure of public health; the analytical tools employed by public health practitioners; bio-pyschosocial perspectives of public health problems; health promotion/disease prevention; quality assessment in public health; and legal and ethical concerns.
Family Medicine and Public Health	FPMU 101A	4	UG	IC	Introduction to Epidemiology	Starting in AY16 includes a section on climate change. This course covers the basic principles of epidemiology, with applications to investigations of noninfectious ("chronic") and infectious diseases. Explores various study designs appropriate for disease surveillance and studies of etiology and prevention.
Family & Preventative Medicine	FPMU 130	4	UG	IC	Environmental and Occupational Health	This core public health course addresses the fundamentals of environmental and occupational health, including identification of hazards, basic toxicology, risk assessment, prevention/protection, and regulatory/control policies. Specific environmental and occupational hazards and relevant case studies will be presented. Prerequisites: FPMU 50 and FPMU 101.
Global Policy and Strategy	GPCO 400	4	G	IC	Policy-Making Processes	This course is designed to teach students how to "read" a country's political and economic system. The course will examine how the particular evolution of institutional frameworks in the different countries of the Pacific region influences the way that political choices are made. Renumbered from IRCO 400. Students may not receive credit for GPCO 400 and IRCO 400. Prerequisites: GPS students only or consent of instructor.

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Global Policy and Strategy	GPCO 401	4	G	IC	Microeconomics for Policy and Management	This course introduces microeconomics, emphasizing applications to public policy. We examine tools such as marginal analysis and game theory to understand markets, the behavior of individuals and firms, and what role policy plays when markets fail to maximize social welfare. Renumbered from IRCO 401. Students may not receive credit for GPCO 401 and IRCO 401. Prerequisites: GPS students only or consent of instructor.
Global Policy and Strategy	GPCO 405	4	G	IC	Policy and Political Decision-Making in the U.S.	This course teaches students how to analyze environmental and natural resource policy issues in developing countries using economic concepts and methods. Weekly spreadsheet exercises based on real-world data provide hands-on practice.
Global Policy and Strategy	GPCO 410	4	G	IC	International Politics and Security	Development of analytic tools for understanding international relations with applications to contemporary problems such as the environment, nuclear proliferation, human rights, humanitarian interventions, and the roots of conflict and cooperation among countries. Renumbered from IRCO 410. Students may not receive credit for GPCO 410 and IRCO 410. Prerequisites: GPS students only or consent of instructor.
Global Policy and Strategy	GPCO 412	4	G	IC	Globalization, the World System, and the Pacific	This course examines globalization and other economic and political factors that shape the international relations of the Pacific Rim. Specific topics include financial market integration, state cooperation and intervention, and case studies of individual countries. Renumbered from IRCO 412. Students may not receive credit for GPCO 412 and IRCO 412. Prerequisites: GPS students only or consent of instructor.
Global Policy and Strategy	GPCO 466	4	G	SC	Real World Projects in Energy and the Environment	The course will emphasize real world application of theories and methods of policy analysis to projects with real clients in the area of energy and the environment. The class will include case studies and seminar-style discussions of topics such as project finance and management of regulatory risk. Most of the class will be devoted to work in small teams with clients seeking strategic guidance. Students are expected to produce final projects suitable for senior management and governing boards. Prerequisites: GPCO 400 and GPPS 428 or consent of instructor.
Global Policy and Strategy	GPCO 467	4	G	IC	Policy Responses to Global Problems	This capstone is designed to test the analytic skills of students, using them to explain complex real-world problems: security, persistent recurring conflict, persistent inequality and intergenerational debt, women's rights, environmental change, energy/resource systems, and financial contagion. Emphasis will be placed on determining the nature and dimension of the problem, exploring a range of solutions and assessing the capacity of public institutions. Renumbered from IRCO 467. Students may not receive credit for GPCO 467 and IRCO 467. Prerequisites: GPS students only or consent of instructor.
Global Policy and Strategy	GPCO 481	4	G	IC	The Politics of International and National Policy Making	This course provides an introduction to the international political economy of the Pacific Rim. The course covers important international developments, such as regionalism, as well as domestic decision-making processes. Renumbered from IRCO 481. Students may not receive credit for GPCO 481 and IRCO 481. Prerequisites: MAS-IA students only.

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Global Policy and Strategy	GPEC 414	4	G	IC	The Economics of Energy Policy	This course examines the theoretical and empirical questions around the supply and demand markets, and the use for energy in firms and households. We will consider the environmental consequences and regulations of use. The course emphasizes the application of economic theory to energy issues. Non-GPS graduate students may enroll with consent of instructor. Renumbered from IRGN 414. Students may not receive credit for GPEC 414 and IRGN 414. Prerequisites: GPS students only or consent of instructor.
Global Policy and Strategy	GPEC 415	4	G	IC	The Economics of Trade Policy	This course explores the rationales and consequences of trade-related government interventions from an economic perspective. We will cover classical trade theory, "new" trade theory, the process of global multilateral trade integration, and the political economy roots of trade policy. Non-GPS graduate students may enroll with consent of instructor. Renumbered from IRGN 415. Students may not receive credit for GPEC 415 and IRGN 415.
Global Policy and Strategy	GPEC 417	4	G	IC	Microfinance	This course will begin by examining financial systems in poor countries. We will investigate how microfinance contracts overcome problems which had previously barred the extension of business credit in many environments. Renumbered from IRGN 417. Students may not receive credit for GPEC 417 and IRGN 417.
Global Policy and Strategy	GPEC 418	4	G	IC	Green Technology	The course looks at clean energy and related technologies, including a high-level understanding of the science, policy, and market forces governing innovation. Students will develop an understanding of the renewable energy sector and the market variability of new technology. Non-GPS graduate students may enroll with consent of instructor. Renumbered from IRGN 418. Students may not receive credit for GPEC 418 and IRGN 418.
Global Policy and Strategy	GPEC 432	4	G	IC	Immigration and Immigration Policy	The goals of the course are to help students acquire analytic skills used in the study of labor economics and international migration. We examine the causes of immigration, the consequences of immigration for wages and employment in sending and receiving countries, and policies governing high-skilled immigration, undocumented immigration, and refugees. Students produce an original project that demonstrates their master of quantitative tools used in economics. Renumbered from IRGN 432. Students may not receive credit for GPEC 432 and IRGN 432.
Global Policy and Strategy	GPEC 243 & 443	4	G	IC	GIS and Spatial Data Analysis	This course introduces GIS and spatial data analysis for social science research. We use ArcGIS to manipulate and visualize georeferenced data and learn various spatial analysis tools. We emphasize geography as an important lens through which to study society. Renumbered from IRGN 443. Students may not receive credit for GPEC 443 and IRGN 443. Basic knowledge of statistics and STATA is assumed.

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Global Policy and Strategy	GPEC 244 & 444	4	G	IC	Advanced GIS and Remote Sensing	Students will learn to design and maintain geospatial databases, validate the topology of a dataset, and produce clear and informative maps and reports. Part two will be dedicated to principles of remote sensing and to analysis of satellite imagery: geospatial database design and maintenance, topology validation and topological rules, the Network analyst extension, the surface tool-set, basic concepts of remote sensing, and introduction to Google Earth Engine UI and Google Earth Engine API. May not receive credit for GPEC 444 and IRGN 490 with the subtitles: "Advanced GIS Spatial Analysis" or "Advanced GIS and Remote Sensing." May be co-scheduled with GPEC 244. GPEC 443 or the equivalent training in GIS is recommended.
Global Policy and Strategy	GPEC 449	4	G	IC	Corruption and Development	The goal of this course is to better understand corruption in developing countries today: why it occurs, the consequences, and what can or should be done about it. Topics include: the conceptual and historical background of corruption; different views on how corruption affects regulatory processes; how the organization of a bureaucracy may affect the amount of corruption; effects on redistribution; methods for reducing corruption; and the role of information and elections as limits. Student may not get credit for GPEC 449 and IRGN 490, Corruption and Development.
Global Policy and Strategy	GPEC 450	4	G	IC	Macroeconomics of Development	This course will cover topics such as: economic growth in the long run; cross-country differences in income, labor supply, human capital, investment, and welfare; development accounting; technology adoption; misallocation and total-factor productivity; rural-urban income gaps and migration; structural transformation; and competition and productivity. Student may not receive credit for GPEC 450 and IRGN 490, Macroeconomics of Development. GPCO 401 and GPCO 403 are recommended.
Global Policy and Strategy	GPEC 451	4	G	IC	Economic Development	This course examines comparative patterns of industrialization and agricultural modernization with a focus on certain common features of the modernization process and widely varying endowments, policies, and experiences, of different countries. Renumbered from IRGN 451. Students may not receive credit for GPEC 451 and IRGN 451. Prerequisites: GPCO 401 and GPCO 403.
Global Policy and Strategy	GPEC 453	4	G	SC	Sustainable Development	The course will cover the various aspects of the concept and application of sustainable development: the ways in which sustainable development can be measured, methods for the evaluation of environmental damages and benefits, and the role of discounting. We will analyze several cases demonstrating failure of the market. Renumbered from IRGN 453. Students may not receive credit for GPEC 453 and IRGN 453.
Global Policy and Strategy	GPEC 455	4	G	SC	Integrated Development Practice	This course introduces students to the basic competencies and practical skills of a development practitioner. Lectures will be grounded in a practical, multi-sectorial approach that focuses on the interrelationship of the social sciences, health sciences, and natural sciences. It emphasizes a "differential diagnosis for development" through case studies of developing countries. Students will be asked to use both STATA and GIS to analyze household survey data to identify poverty hot spots. May not receive credit for GPEC 455 and the IRGN 490 course of the same title. Assumes competence in both STATA and GIS.

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Global Policy and Strategy	GPEC 458	4	G	SC	International Environmental Policy and Politics	This course analyzes multilateral environmental agreements and negotiating positions of key countries on climate change, biodiversity conservation, sustainable development, and other subjects. It explores the challenges countries face to balance economic development objectives with global environmental concerns. Renumbered from IRGN 458. Students may not receive credit for GPEC 458 and IRGN 458.
Global Policy and Strategy	GPEC 468	4	G	IC	International Health Economics	Course provides an overview of health economics, focusing on developing countries. We will examine both how standard economics concepts and methods can be used to understand incentives and decision making in health-related transactions and their application to health policy. Renumbered from IRGN 468. Students may not receive credit for GPEC 468, IRGN 468, and IRGN 490, International Health Economics.
Global Policy and Strategy	GPEC 488	4	G	IC	Environmental and Regulatory Economics	This course provides a broad overview of environmental and regulatory economics and its interface with public policy. This course will be grounded in micro-economic theory with applications to specific cases. Renumbered from IRGN 488. Student may not receive credit for GPEC 488 and IRGN 488. Prerequisites: GPCO 401 and GPCO 454 or consent of instructor.
Global Policy and Strategy	GPEC 489	4	G	IC	The Economics of Nonmarket Valuation	Government policies with respect to cultural amenities, the environment, health, and transportation generate benefits and costs not directly priced by the market. This course covers the range of techniques economists utilize to place a monetary value on nonmarket outputs. Course renumbered from IRGN 489. Student may not receive credit for GPEC 489 and IRGN 489. Prerequisites: GPCO 401 and GPCO 454.
Global Policy and Strategy	GPIM 413	4	G	IC	Corporate Strategy and the Environment	This seminar examines the ability of firms to increase shareholder value through improved environmental performance. Topics include product differentiation, strategic use of regulations, the "Porter hypothesis," and environmental management systems. Readings include case studies and research articles. Renumbered from IRGN 413. Students may not receive credit for GPIM 413 and IRGN 413.
Global Policy and Strategy	GPIM 457	4	G	IC	Cost-Benefit Analysis	Examination of public policy analysis, such as cost-benefit analysis and project evaluation, for use in policy formation. Sustainable development will receive particular attention. Case studies emphasizing the environment, agriculture and food, and economic development will be included. Renumbered from IRGN 457. Students may not receive credit for GPIM 457 and IRGN 457.
Global Policy and Strategy	GPPA 404	4	G	IC	Governance, Public Administration, and Development	Good governance and public administration underpin the effective implementation of almost the entire development agenda. This course examines rigorous evidence on both the drivers and impact of (mis)governance in developing countries. Students may not receive credit for GPPA 404 and IRGN 490, Governance, Public Administration, and Development.
Global Policy and Strategy	GPPA 405	4	G	IC	Managing the Distributive Politics of Public Policy	Why do public authorities inefficiently distribute scarce economic resources? What are the impacts of such inefficient distribution on welfare and economic development? And how do we design policies to limit inefficiencies in distribution? This course surveys the literature on distributive politics to address these questions. Students may not receive credit for GPPA 405 and the IRGN 490 with the same title.

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Global Policy and Strategy	GPPA 407	4	G	IC	Policy Implementation Process	Course builds on policy-making processes class by focusing on nonelected officials' role in setting and implementing policy. Ideally, elected officials make policies that unbiased, technically proficient bureaucrats carry out. Course provides insight into why the real world departs from this. Renumbered from IRGN 407. Students may not receive credit for GPPA 407 and IRGN 407.
Global Policy and Strategy	GPPA 450	4	G	IC	Justice, Policy, and Development	This course explores three topics: 1) democracy, which is primarily about procedural justice; 2) social policy, which is primarily about distributive justice; and, 3) corruption, which is a breach of formal justice. We will consider potential conflicts and reconciliation between justice and development, approaching various issues not just theoretically and conceptually, but also empirically and quantitatively. The course uses cross-national quantitative studies and case studies. Renumbered from IRGN 450. Students may not receive credit for GPPA 450 and IRGN 450.
Global Policy and Strategy	GPPA 467	4	G	IC	Chinese Environmental and Energy Policy	This course will focus on three dimensions of Chinese environmental and energy policy. First, we will introduce the causes and consequences of environmental and energy problems. Second, we will examine Chinese environmental and energy governance: institutions, laws, and regulations for environmental protection, energy production and consumption. Third, we will explore the practices of the Chinese government to address the emerging environmental and energy options, focusing on climate change. Renumbered from IRGN 467. Students may not receive credit for GPPA 467 and IRGN 467.
Global Policy and Strategy	GPPA 472	4	G	SC	Latin American Environmental and Energy Policy	This course examines the human dimension of environmental change, focusing on topics such as biodiversity conservation, climate change, land use systems, deforestation, and the institutions of regulation. The course uses Latin America as its central focus but, for comparative perspective, uses cases from Asia and Africa. Non-GPS students may enroll with consent of instructor. Renumbered from IRGN 472. Students may not receive credit for GPPA 472 and IRGN 472.
Global Policy and Strategy	GPPA 483	4	G	IC	Food Security	The course will introduce students to the world food economy and its drivers. The first part of the course will consider the forces governing food prices and supply. The second part uses quantitative assessment of policy changes. The third part frames future constraints to food security. Renumbered from IRGN 483. Students may not receive credit for GPPA 483 and IRGN 483. Recommended preparation: GPCO 454, knowledge of regression analysis, and STATA.
Global Policy and Strategy	GPPS 410	4	G	IC	Corporate Governance	Why do corporate governance systems—the way firms are run, the relationships among managers, stockholders, and workers—differ widely around the world? This course examines the various explanations for these striking differences and the consequences. Renumbered from IRGN 410. Students may not receive credit for IRGN 410 and GPPS 410.

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Global Policy and Strategy	GPPS 417	4	G	IC	International Political Economy: Trade and Investments	Examination of the effects of national governments and international collaboration on global trade and investments, with a focus on the roles of national trade policies, international institutions such as the WTO, free trade areas, bilateral investment treaties, and multinational corporations. Implications of trade and investment are also considered for international development and emerging economic powers.
Global Policy and Strategy	GPPS 420	4	G	IC	Workers and Labor in Global Markets	This course focuses on the relationships between workers, employers, and governments in global supply chains. How is work and labor regulated in various industries and parts of the world? How has this changed over time? When have workers become important political forces and how have governments and capital owners responded? How and why? What will the future of work look like? May not receive credit for GPPS 420 and the IRGN 490 course with the same title.
Global Policy and Strategy	GPPS 420	4	G	IC	Workers and Labor in Global Markets	This course focuses on the relationships between workers, employers, and governments in global supply chains. How is work and labor regulated in various industries and parts of the world? How has this changed over time? When have workers become important political forces and how have governments and capital owners responded? How and why? What will the future of work look like? May not receive credit for GPPS 420 and the IRGN 490 course with the same title.
Global Policy and Strategy	GPPS 421	4	G	IC	The Politics of Economic Inequality	The importance of inequality in income, wealth, and access to resources and opportunities can hardly be overstated. This course has several objectives: (1) to understand the measurement of inequality; (2) to understand the level of inequality in the United States versus other industrialized nations; (3) to see how political scientists and economists understand its causes and effects; (4) to understand why some think inequality is to their advantage; (5) to develop the tools and data for normative evaluations. May not receive credit for GPPS 421 and the IRGN 490 with the same title.
Global Policy and Strategy	GPPS 423	4	G	SC	Corporate Social Responsibility	Nongovernmental organizations monitor compliance with norms through shareholder activism, consumer pressures, political protest, creating “brands,” and legal action. Course examines these strategies to determine what works best, and how organizations and individuals can influence corporations to “do the right thing.” Renumbered from IRGN 423. Students may not receive credit for IRGN 423 and GPPS 423.
Global Policy and Strategy	GPPS 427	4	G	IC	International Law and Regulation	This course will introduce students to the major techniques for managing international problems through legal and administrative regulation. The class will offer an overview of the main theories relevant to policy, such as the choice and design of treaties and other legal instruments. Cases will be drawn from economics, finance, development, security, human rights, and environment. Renumbered from IRGN 427. Students may not receive credit for IRGN 427 and GPPS 427.
Global Policy and Strategy	GPPS 428	4	G	IC	The Politics of Energy and Environmental Regulation	The class introduces students to major theoretical perspectives that are used to show how societies design and implement policies related to energy, and applies these theories to major issues in energy policy, including ethanol, climate change, and energy security. Renumbered from IRGN 428. Students may not receive credit for GPPS 428 and IRGN 428.

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Global Policy and Strategy	GPPS 430	4	G	IC	Human Rights, Public Policy, and International Relations	Prepares students to analyze the causes of repression and the effectiveness of political intervention. Attention will focus on the evaluation of the design, implementation, and effectiveness of human rights policy, including international organizations, democracy, trade, and social movement advocacy. Renumbered from IRGN 430. Students may not receive credit for GPPS 430 and IRGN 430.
Global Policy and Strategy	GPPS 433	4	G	IC	Humanitarian Interventions	This course encourages sustained debate about US interventions into conflict and post-conflict settings abroad since the end of the Cold War. We will consider the broad trends in international politics, with particular focus on the nature of "unipolarity," "responsibility to protect," and the politics of border regions. We will look at both governmental and nongovernmental actors. Renumbered from IRGN 434. Students may not receive credit for GPPS 434 and IRGN 434.
Global Policy and Strategy	GPPS 441	4	G	IC	Government and Regulation	This course goes beyond the debates of the role of the market and the state in the process of economic growth and political development, seeking to provide an understanding of the complex interaction between political incentives, regulatory decisions, and their implementation. Non-GPS graduate students may enroll with consent of instructor. Students may not receive credit for both renumbered from IRGN 441. Students may not receive credit for GPPS 441 and IRGN 441.
Global Policy and Strategy	GPPS 448	4	G	IC	Civil Society and Development	To explore the roles that civil society/NGOs/the third sector can play in advancing political, social, and economic progress in developing countries. To consider the strengths and weaknesses, capacities, and limitations of NGOs in developing countries. To provide students with experience in evaluating NGOs and in making professional recommendations to enhance their ability to make a difference. To prepare students to take leadership roles—whether in government, the private sector, or NGOs—in promoting civil-society participation in development. Renumbered from IRGN 448. Students may not receive credit for GPPS 448 and IRGN 448.
Global Policy and Strategy	GPPS 450	4	G	IC	The Political Economy of Foreign Aid	The course is designed to develop the analytical tools to assess how foreign aid is allocated and whether it is effective. We will ask the following key questions: (1) Why do states give foreign aid?; (2) Is foreign aid effective?; (3) How do donors allocate foreign aid?; (4) What are the differences between bilateral and multilateral aid?; and, (5) Are there unintended consequences of foreign aid? The readings will consist of both seminal and recent works in political science and economics. May not receive credit for GPPS 450 and the IRGN 490 with the same course title.
Global Policy and Strategy	GPPS 465	4	G	IC	Management of Nonprofit Organizations	Analyzes the particular environment in which nonprofit organizations define and achieve their objectives. Management tools are applied to existing nonprofits and to student projects. Renumbered from IRGN 465. Students may not receive credit for GPPS 465 and IRGN 465.

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Global Policy and Strategy	GPPS 473	4	G	IC	Political Economy of Energy in Asia	This course examines the political economy of energy in Asia across a number of key themes, including the interaction between the economics and politics of energy markets, the search for energy security through cooperation and competition, the challenges of managing difficult energy policy choices and trade-offs, and the challenges of sustainable energy development. Emphasis will be placed on the oil industry and its pivotal role in global energy use, pricing, and geopolitics. Renumbered from IRGN 473. Students may not receive credit for GPPS 473 and IRGN 473.
History	HISC 105	4	UG	SC	History of Environmentalism	History of human effects on the natural environment, with emphasis on understanding the roles of the physical and biological sciences in providing insights into environmental processes.
History	HIAF 120	4	UG	IC	History of South Africa	The origins and the interaction between the peoples of South Africa. Special attention will be devoted to industrial development, urbanization, African and Afrikaner nationalism, and the origin and development of apartheid and its consequences.
History	HIGR 237	4	G	IC	Topics in the History of Ocean Sciences	(Cross-listed with SIO 201.) Intensive study of specific problems in the history of the ocean sciences, and of related earth and atmospheric sciences, in the modern period. Topics vary from year to year, and students may therefore repeat the course for credit.
History	HIGR 241	4	G	IC	Advanced Approaches to Science Studies	Focus on recent literature in the history, philosophy, and sociology of science, technology, and medicine. Required of all students in the Science Studies Program.
History	HILA 121B	4	UG	IC	History of Brazil, 1889 to Present	This course examines factors that shed light on Brazil's label as a rising nation. In part, we will cover Brazil's two dictatorships, labor struggles, racial issues, immigration from Asia and Europe, environmental concerns, and emergence as economic and political powerhouse.
History	HISC 102	4	UG	IC	Technology in World History	Technology as an agent of change. How have humans harnessed the power of nature? What factors have contributed to successes and failures? How has technology changed human life? How should we evaluate the quality of these changes? Prerequisite: upper-division standing.
History	HISC 104	4	UG	IC	History of Popular Science	Historical aspects of the popularization of science. The changing relation between expert science and popular understanding. The reciprocal impact of scientific discoveries and theories, and popular conceptions of the natural world. Prerequisite: upper-division standing.
History	HISC 108	4	UG	IC	Life Sciences in the Twentieth Century	Major intellectual developments in twentieth-century science, including quantum mechanics and relativity, molecular biology and DNA, and plate tectonics. Emphasis on the sources of new ideas and evidence in science, and the forging of consensus in scientific communities. Prerequisite: upper-division standing.
History	HISC 111	4	UG	IC	The Atomic Bomb and the Atomic Age	The atomic bomb changed the world. We examine the origins and impact of the atomic age: the discovery of radioactivity; the Manhattan project and bombings of Hiroshima and Nagasaki; the H-bomb, nuclear fallout, and the modern environmental movement. Prerequisite: upper-division standing or consent of instructor.

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History	HISC 114	4	UG	IC	The Darwinian Legacy	The Origin of Species by means of Natural Selection, and its scientific, intellectual, and political legacies. Topics include social Darwinism, eugenics, Nazi racial hygiene, population control, neo-Malthusianism in the modern environmental movement. Prerequisite: upper-division standing.
History	HISC 120A	4	UG	IC	Technology in America	The role of technology in American history through the Civil War. Indigenous and colonial development, transportation infrastructures, and industrialization are explored to understand the connections among technology, society, and culture.
History	HISC 130	4	UG	IC	Technology in the Twentieth Century	Major technological developments in the twentieth century, including the rise and decline of technologies, unexpected hazards and unanticipated consequences, and why some technologies fail. Prerequisite: upper-division standing.
History	HISC 131	4	UG	IC	Science, Technology, and Law	Science and law are two of the most powerful establishments of modern Western culture. Science organizes our knowledge of the world; law directs our action in it. Will explore the historical roots of the interplay between them. Prerequisite: upper-division standing.
History	HISC 154	4	UG	SC	Western Environmental History	This course examines human interaction with the western American environment and explores the distinction between the objective environmental understanding of science and the subjective views of history and historians. The course will also analyze the most compelling environmental issues in the contemporary West.
History	HISC 163/263	4	UG	SC	History, Science, and Politics of Climate Change	The complex historical development of human understanding of global climate change, including key scientific work, and the cultural dimensions of proof and persuasion. Special emphasis on the differential political acceptance of the scientific evidence in the U.S. and the world. Graduate students are required to submit an additional paper. Prerequisite: upper-division or graduate standing. Department stamp required.
History	HISC 165	4	UG/G	IC	Topics in Twentieth-Century Science and Culture	This seminar explores topics at the interface of science, technology, and culture, from the late nineteenth century to the present. Topics change yearly; may be repeated for credit with instructor's permission.
History	HISC 167/267	4	UG/G	IC	Gender and Science	Why have women been traditionally excluded from science? How has this affected scientific knowledge? How have scientists constructed gendered representations not only of women, but also of science and nature? We will address these questions from perspectives including history, philosophy, and psychoanalytic theory. Prerequisites: upper-division standing or consent of instructor.
History	HISC 170/270	4	UG/G	IC	Topics in the History of Science and Technology	This seminar explores topics at the interface of science, technology, and society, ranging from the seventeenth century to the twentieth. Requirements will vary for undergraduate, M.A., and Ph.D. students. Graduate students are required to submit an additional paper. Prerequisite: upper-division standing or consent of instructor.
History	HISC 172/272	4	UG/G	IC	Building America Technology, Culture, and the Built Environment in the United States	The history of the built environment in the United States, from skyscrapers to suburbs, canals and railroads to factories and department stores. The technological history of structures and infrastructures, and the social and cultural values that have been “built into” our material environment. Graduate students are required to submit an additional paper. Prerequisite: upper-division standing or consent of instructor.

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History	HISC 180/280	4	UG/G	IC	Science and Public Policy	This course will explore the evolution of the institutions, ideologies, procedures, standards, and expertise that modern democratic societies have used in applying science to generate and legitimate public policy.
History	HITO 180/280	4	UG/G	IC	Housing in the Developing World	The majority of the world’s citizens now live in cities; this course examines the evolution of housing architecture and finance in the twentieth-century context of rapid urbanization, dissolving empire, industrialization, and globalization. Graduate students will submit a more substantial piece of work with in-depth analysis and with an increased number of sources cited. A typical undergraduate paper would be ten pages, whereas a typical graduate paper would require engagement with primary sources, more extensive reading of secondary material, and be about twenty pages.
History	HIUS 129 (Cross-listed with USP 106)	4	UG	IC	The History of Race and Ethnicity in American Cities	This class examines the history of racial and ethnic groups in American cities. It looks at major forces of change such as immigration to cities, political empowerment, and social movements, as well as urban policies such as housing segregation. Prerequisites: upper-division standing or consent of instructor.
History	HIUS 147 (Cross-listed with USP 165)	4	UG	IC	History of the American Suburb	This lecture explores the development of suburbs in America, from the early nineteenth century to the contemporary era. Topics include suburban formation, class, ethnic and racial dimensions, government influences, social life, and cultural responses to suburbia. The class will explore competing theories of suburbanization as it surveys the major literature.
History	HIUS 148 (Cross-listed with USP 103)	4	UG	IC	The American City in the Twentieth Century	This course focuses on the phenomenon of modern American urbanization. Case studies of individual cities will help illustrate the social, political, and environmental consequences of rapid urban expansion, as well as the ways in which urban problems have been dealt with historically.
History	HIUS 154	4	UG	SC	Western Environmental History	This course examines human interaction with the western American environment and explores the distinction between the objective environmental understanding of science and the subjective views of history and historians. The course will also analyze the most compelling environmental issues in the contemporary West.
History	HIUS 162/262	4	UG/G	IC	The American West	This seminar will trace major themes in the history of the American West. Topics will include ethnicity, the environment, urbanization, demographics, and shifting concepts surrounding the significance of the West. Graduate students will be required to submit additional work in order to receive graduate credit for the course. Prerequisite: department stamp required.
Human Rights	HMNR 100/HITO 119	4	UG	IC	Introduction to Human Rights and Global Justice	Explores where human rights come from and what they mean by integrating them into a history of modern society, from the Conquest of the Americas and the origins of the Enlightenment, to the Holocaust and the contemporary human rights regime.
Human Rights	HMNR 101/ANSC 140	4	UG	IC	Human Rights II: Contemporary Issues	Interdisciplinary discussion that outlines the structure and functioning of the contemporary human rights regime, and then delves into the relationship between selected human rights protections—against genocide, torture, enslavement, political persecution, etc.—and their violation, from early Cold War to the present.

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Humanities	HUM 4	4	UG	IC	Enlightenment, Romanticism, Revolution	The enlightenment's revisions of traditional thought; the rise of classical liberalism; the era of the first modern political revolutions; romantic ideas of nature and human life. Revelle students must take course for letter grade.
International Studies	INTL 102	4	UG	IC	Economics, Politics, and International Change	Examination of the domestic and international sources of economic and political change. Topics include the rise of the nation-state, comparative economic development, authoritarian and democratic regimes, international and civil conflict, globalization and its domestic and international implications. Prerequisites: sophomore standing or above and completion of at least one quarter of a university-level writing course.
Literature	LTCS 256	4	G	IC	Cultural Studies of Technoscience	The course will explore work in cultural studies, feminist studies, and queer theory of scientific practices altering social relations, cultural identities, and conceptions of "nature." Issues may include the AIDS pandemic, genetic research, electronic communities, reproductive technologies, and other topics. May be repeated for credit when topics vary.
Literature	LTEN 151	4	UG	IC	Topics: Animals and the Natural World	An examination of nonhuman animals and the natural world in relation to English-language literatures and other cultural expressions at different historical periods. Topics might include the relationship among species, race, class, and gender; nature writing in different genres; critical animal studies; and eco-criticism. May be repeated up to three times for credit when topics vary.
Literature	LTWL 165	4	UG	IC	Literature and the Environment	With primarily American (and a couple of English) readings, the course inquires into the relation of human and nonhuman nature. Topics include wilderness, animals, Native American thought, women in nature, description as a kind of writing, the spirituality of place.
Literature	LTWR 122	4	UG	IC	Writing for the Sciences	A workshop in writing about science for the public. Students will study and then construct metaphors or analogues which introduce readers to scientific perplexities. May be repeated for credit when topics vary.
Making of the Modern World	MMW 14	4	UG	IC	Revolution, Industry, and Empire	This course examines the great changes in European society occurring from the late seventeenth century to the time of the Russian Revolution and considers the impact of those changes on the non-Western world. Topics include absolutist states and the Enlightenment, the French and American Revolutions, industrialization, the rise of nationalism and the nation-state, mass politics, Western imperialism, and the colonial experience. Developments in non-Western countries during this period will be examined from their own internal perspectives. Prerequisites: completion of MMW 12 or MMW 2; and completion of MMW 13 or MMW 3; open to Eleanor Roosevelt College students only. Students may not receive credit for both MMW 14 and MMW 5. Must be taken for a letter grade to meet the requirement. (F,W,Su)
Management (Rady)	MGT 14	4	UG	IC	Managing Diverse Teams	The modern workplace includes people different in culture, gender, age, language, religion, education, and more. Students will learn why diverse teams make better decisions and are often integral to the success of organizations. Topics include challenges of diversity, and the impact of emotional, social, and cultural intelligence on team success. Content will include significant attention to the experiences of Asian Americans and African Americans as members and leaders of such diverse teams.

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Management (Rady)	MGT 166	4	UG	IC	Business Ethics and Corporate Responsibility	Will cover ethical conduct issues for leaders from a wide array of organizations and industries including consideration of differences among global trading partners. The issues impacting corporate responsibility will be examined as will full-cycle cost analysis of products and services. Prerequisites: upper-division standing.
Management (Rady)	MGT 167	4	UG	SC	Social Entrepreneurship	Social entrepreneurs create innovative solutions to solve challenging social and environmental issues affecting the world around them. In this course, students will learn how to apply entrepreneurial business and innovative skills to effectively tackle global issues impacting society such as environmental degradation, rural health care availability, educational improvements in economically disadvantaged regions of the world, famine in an era of obesity, and clean water development. Prerequisites: upper-division standing.
Marine Biodiversity	SIO 295S	8	G	IC	Introduction to Marine Biodiversity and Conservation—Seminar	Lectures on ecological, economic, social, and legal issues related to marine biodiversity and case studies on socioeconomic and legal issues. Students are expected to attend field trips at sea and to various sites around San Diego County as part of the corequisite course. Students who have taken SIO 295 may not receive credit for SIO 295S.
Marine Biodiversity	SIO 295LS	8	G	IC	Introduction to Marine Biodiversity and Conservation—Lab	Laboratory work on major biological taxa, field trips on biodiversity in situ, computer labs for informatic tools. Students are expected to attend field trips at sea and to various sites around San Diego County as part of the course. Students who have taken SIO 295L may not receive credit for SIO 295LS.
Marine Biodiversity	SIO 286	4	G	SC	Marine Science, Economics, and Policy	This course investigates global issues in marine conservation and potential policy solutions. The approach is interdisciplinary, fast-paced, and discussion-oriented. Students will become acquainted with sufficient background in marine biology, ecology, marine and conservation economics, international law and policy as preparation for participation in discussion on real-world issues in marine conservation. Topics and instructors change each quarter. Prerequisites: graduate standing or consent of instructor.
Marshall College	TMC 15	4	UG	IC	Introduction to Public Service in America	This course is designed to study, discuss, and analyze the history and current role of public service in the United States. Students will be introduced to the different roles held by the three sectors of the American economic structure (government, business, and nonprofit/public service) with opportunity to provide a critical analysis of those roles within American society.
Materials Science and Engineering	MATS 252 (Cross-listed with MAE 266)	4	G	IC	Biomaterials	This class will cover biomaterials and biomimetic materials. Metal, ceramic, and polymer biomaterials will be discussed. Emphasis will be on the structure-property relationships, biocompatibility/degradation issues and tissue/material interactions. Synthesis and mechanical testing of biomimetic materials will also be discussed.
Materials Science and Engineering	MATS 256	4	G	IC	Energy Materials and Applications	This class will cover the fundamentals/engineering aspects of various energy materials based on metallic, ceramic, semiconductor, and chemical structures and their applications related to solar cells, fuel cells, batteries, fusion energy, and hydrogen storage will be discussed.

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Mathematics	MATH 111A	4	UG	IC	Mathematical Modeling	Starting in 2017 includes a module/section on climate change. An introduction to mathematical modeling in the physical and social sciences. Topics vary, but have included mathematical models for epidemics, chemical reactions, political organizations, magnets, economic mobility, and geographical distributions of species. May be taken for credit two times when topics change. Prerequisites: Math 20D and Math 18 or Math 20F or Math 31AH, and Math 109, or consent of instructor.
Mathematics	MATH 181A	4	UG	IC	Introduction to Mathematical Statistics and	Starting in 2017 includes a module/section on climate change. Multivariate distribution, functions of random variables, distributions related to normal. Parameter estimation, method of moments, maximum likelihood. Estimator accuracy and confidence intervals. Hypothesis testing, type I and type II errors, power, one-sample t-test. Prior or concurrent enrollment in Math 109 is highly recommended. Prerequisites: Math 180A, and Math 18 or Math 20F or Math 31AH, and Math 20C. Students who have not completed listed prerequisites may enroll with consent of instructor.
Mathematics	MATH 181E	4	G	IC	Mathematical Statistics	Starting in 2017 includes a module/section on climate change. Analysis of trends and seasonal effects, autoregressive and moving averages models, forecasting, informal introduction to spectral analysis. Prerequisites: Math 181B or consent of instructor.
Mathematics	MATH 189	4	G	IC	Data Analysis and Inference	Starting in 2017 includes a module/section on climate change. An introduction to various quantitative methods and statistical techniques for analyzing data—in particular big data. Quick review of probability continuing to topics of how to process, analyze, and visualize data using statistical language R. Further topics include basic inference, sampling, hypothesis testing, bootstrap methods, and regression and diagnostics. Offers conceptual explanation of techniques, along with opportunities to examine, implement, and practice them in real and simulated data. Prerequisites: Math 18 or Math 20F or Math 31AH, and Math 20C and one of BENG 134, CSE 103, ECE 109, Econ 120A, MAE 108, Math 180A, Math 183, Math 186, or SE 125. Students who have not completed listed prerequisites may enroll with consent of instructor.
Mechanical and Aerospace Engineering	MAE 110A	4	UG	IC	Thermodynamics	Starting in 2017 includes a module/section on climate change. Fundamentals of engineering thermodynamics: energy, work, heat, properties of pure substances, first and second laws for closed systems and control volumes, gas mixtures. Application to engineering systems, power and refrigeration cycles, combustion.
Mechanical and Aerospace Engineering	MAE 118	4	UG	SC	Introduction to Energy Systems	Overview of present-day primary energy sources and availability; stationary and mobile power plant technologies; air pollution and controls; introduction to climate change; overview of renewable energy resources and technologies. Prerequisites: MAE 101A or CENG 101A, or consent of instructor.
Mechanical and Aerospace Engineering	MAE 119	4	UG	IC	Introduction to Renewable Energy: Solar and Wind	Basic principles of solar radiation—diffuse and direct radiation; elementary solar energy engineering—solar thermal and solar photovoltaic; basic principles of wind dynamics—hydrodynamic laws, wind intermittency, Betz’s law; elementary wind energy engineering; solar and wind energy perspectives; operating the California power grid with 33 percent renewable energy sources.

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Mechanical and Aerospace Engineering	MAE 121	4	UG	IC	Air Pollution Transport and Dispersion Modeling	Overview of air pollution and wastes and their impact. Characteristics of air pollutants. Air pollution transport. Atmospheric stability. Plume rise and dispersion. Meteorological data. Selecting the appropriate air quality model and case studies. Modeling complex terrain situations. Current air quality modeling issues. Laws and regulations to control air pollution.
Mechanical and Aerospace Engineering	MAE 122	4	UG	IC	Flow and Transport in the Environment	Introduction to the air and aquatic environments. Buoyancy, stratification, and rotation. Earth surface energy balance. Introduction to the atmospheric boundary layer. Advection and diffusion. Turbulent diffusion and dispersion in rivers and in the atmospheric boundary layer. Surface waves and internal gravity waves.
Mechanical and Aerospace Engineering	MAE 125C	4	UG	SC	Case Studies in Environmental Engineering	This course is project-oriented. Students will conduct research in small groups, give oral presentations and write reports. Topics reflect material in MAE 125A and MAE 125B. Possible topics: air pollution modeling, building ventilation, wetland preservation. Prerequisites: engineering majors and students receiving a grade of C– or better in MAE 125A-B.
Mechanical and Aerospace Engineering	MAE 126A	4	UG	IC	Environmental Engineering Laboratory 1	Design and analysis of experiments in environmental engineering. Experiments in wind tunnel, water tunnel, and other equipment. Use of instrumentation. Laboratory report writing; error analysis; engineering ethics.
Mechanical and Aerospace Engineering	MAE 126B	4	UG	IC	Environmental Engineering Laboratory 2	Design and analysis of original studies in environmental engineering. Students work on environmental projects and use computational and laboratory facilities.
Mechanical and Aerospace Engineering	MAE 127	4	UG	IC	Statistical Methods for Environmental Sciences and Engineering	Methods for evaluating environmental data including probability distributions, confidence intervals, functional fitting, spectral analysis, and programming methods for data analysis.
Mechanical and Aerospace Engineering	MAE 192	4	UG	IC	Senior Seminar in Aerospace, Environmental or Mechanical Engineering	The Senior Seminar Program is designed to allow senior undergraduates to meet with faculty members in a small group setting to explore an intellectual topic in aerospace, environmental or mechanical engineering (at the upper-division level). Topics will vary from quarter to quarter. Senior Seminars may be taken for credit up to four times, with a change in topic and permission from the department.
Mechanical and Aerospace Engineering	MAE 221	4	G	IC	Heat Transfer	Conduction, convection, and radiation heat transfer. Development of energy conservation equations. Analytical and numerical solutions to transport problems. Specific topics and applications vary.
Mechanical and Aerospace Engineering	MAE 224 (Cross-listed with Cross-listed with SIO 214B)	4	G	IC	Environmental Fluid Dynamics	(Cross-listed with SIO 214B.) Single-layer flows with a free surface, two layer flows including exchange flows in harbors, estuaries, seas, and buildings. Continuously stratified flows with meteorological and oceanographic applications. Topographic effects, plumes, jets, and thermals. Planetary boundary layers. Prerequisites: introductory level graduate course in fluid mechanics.
Mechanical and Aerospace Engineering	MAE 225A	4	G	IC	Nanoscale and Microscale Heat Transfer for Energy Conversion 1	An advanced introduction to the principles underlying conduction, convection, and radiation phenomena at the atomic/molecular scale; overview of macroscopic thermal sciences, kinetic theory and fluidics, statistical thermodynamics and quantum theory, thermal properties as a function of dimensionality; experimental methods.

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Mechanical and Aerospace Engineering	MAE 225B	4	G	IC	Nanoscale and Microscale Heat Transfer for Energy Conversion 2	Energy conversion and coupled transport processes; electron and phonons, equilibrium and nonequilibrium energy transfer in nanostructures. Ballistic-diffusive treatment, thermal radiation issues in nanomaterials, near-field energy transfer, molecular dynamics, and experimental methods.
Mechanical and Aerospace Engineering	MAE 254	4	G	IC	Energy Materials and Applications	This class will cover the fundamentals/engineering aspects of various energy materials based on metallic, ceramic, semiconductor, and chemical structures, and their applications related to solar cells, fuel cells, batteries, fusion energy, and hydrogen storage will be discussed.
Mechanical and Aerospace Engineering	MAE 255	4	G	IC	Boundary Layer and Renewable Energy Meteorology	Radiative and convective heat transfer in the atmosphere. Surface energy balance and the urban heat island. Turbulence and dispersion in the atmospheric boundary layer. Solar and wind energy systems, resource assessment, and intermittency.
Muir College Freshman Seminar/Writing	MUIR 87	4	UG	IC	Muir College Freshman Writing Seminar	In 2016 this course focused on climate change as a theme.
Nanoengineering	NANO 101	4	UG	IC	Introduction to Nanoengineering	Introduction to nanoengineering; nanoscale fabrication: nanolithography and self-assembly; characterization tools; nanomaterials and nanostructures: nanotubes, nanowires, nanoparticles, and nanocomposites; nanoscale and molecular electronics; nanotechnology in magnetic systems; nanotechnology in integrative systems; nanoscale optoelectronics; nanobiotechnology: biomimetic systems, nanomotors, nanofluidics, and nanomedicine. Priority enrollment given to NanoEngineering majors
Nanoengineering	NANO 120B	4	UG	IC	NanoEngineering System Design II	Starting in 2017 included a module/section on climate change. Principles of product quality assurance in design and production. Professional ethics. Safety and design for the environment. Culmination of team design projects initiated in NANO 120A with a working prototype designed for a real engineering application. Prerequisites: NANO 120A.
Nanoengineering	NANO 164	4	UG	IC	Advanced Micro- and Nano- Materials for Energy Storage and Conversion	Materials for energy storage and conversion in existing and future power systems, including fuel cells and batteries, photovoltaic cells, thermoelectric cells, and hybrids. Prerequisites: department stamp.
Nanoengineering	NANO 252	4	G	IC	Biomaterials and Biomimetics	Fundamental ways engineers adopt and adapt ideas from nature and make new engineering materials. Protein-based structural materials; biomineralisation: biosilification, calcium-carbonates, calcium-phosphates, composite mechanics applied to natural materials; biomimetic pattern formation; biomimetic adhesion: attachment devices-mechanisms in nature, biomimetic adhesives; biomimetic flight.
Nanoengineering	NANO 261	4	G	IC	Nanoscale Energy Technology	Examines the role nanotechnology will play in addressing the many scientific and engineering challenges for new energy production. Topics include nanotechnology’s role in improving photovoltaics, fuel-cells, batteries, energy transmission, and conversion of renewable (green) and nonrenewable sources.
Philosophy	PHIL 26	4	UG	IC	Science, Philosophy, and the Big Questions	An inquiry into fundamental questions at the intersection of science and philosophy. Topics can include Einstein’s universe; scientific revolutions; the mind and the brain.

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Philosophy	PHIL 28	4	UG	IC	Ethics and Society II	Starting in 2017 included a module/section on climate change. An examination of a single set of major contemporary social, political, or economic issues (e.g., environmental ethics, international ethics) in light of ethical and moral principles and values. Warren College students must take course for a letter grade in order to satisfy the Warren College general-education requirement. Prerequisites: Philosophy 27 or Poli Sci 27.
Philosophy	PHIL 148	4	UG	SC	Philosophy and the Environment	Investigation of ethical and epistemological questions concerning our relationship to the environment. Topics may include the value of nature, biodiversity, policy and science, and responsibility to future generations. Prerequisites: upper-division standing or consent of instructor.
Philosophy	PHIL 164	4	UG	SC	Technology and Human Values	Philosophical issues involved in the development of modern science, the growth of technology, and control of the natural environment. The interaction of science and technology with human nature and political and moral ideals. Prerequisites: upper-division standing or consent of instructor.
Physics	PHYS 8	4	UG	IC	Physics of Everyday Life	Examines phenomena and technology encountered in daily life from a physics perspective. Topics include waves, musical instruments, telecommunication, sports, appliances, transportation, computers, and energy sources. Physics concepts will be introduced and discussed as needed employing some algebra. No prior physics knowledge is required. Restricted to P/NP grading option if taken after Physics 1A, 2A, or 4A.
Physics	PHYS 10	4	UG	IC	Concepts in Physics	Starting in 2017 included a module/section on climate change. This is a one-quarter general physics course for nonscience majors. Topics covered are motion, energy, heat, waves, electric current, radiation, light, atoms and molecules, nuclear fission and fusion. This course emphasizes concepts with minimal mathematical formulation. Recommended preparation: college algebra.
Physics	PHYS 12	4	UG	SC	Energy and the Environment	A course covering energy fundamentals, energy use in an industrial society and the impact of large-scale energy consumption. It addresses topics on fossil fuel, heat engines, solar energy, nuclear energy, energy conservation, transportation, air pollution and global effects. Concepts and quantitative analysis.
Political Science	POLI 13	4	UG	IC	Power and Justice	An exploration of the relationship between power and justice in modern society. Materials include classic and contemporary texts, films and literature.
Political Science	POLI 27 (Cross-listed with PHIL 27)	4	UG	IC	Ethics and Society	(Same as Phil. 27) An examination of ethical principles (e.g., utilitarianism, individual rights, etc.) and their social and political applications to contemporary issues such as abortion, environmental protection, and affirmative action. Ethical principles will also be applied to moral dilemmas familiar in government, law, business, and the professions. Satisfies the Warren College ethics and society requirement. Prerequisites: CAT 2 and 3, DOC 2 and 3, MCWP 40 and 50, Hum. 1 and 2, MMW 2 and 3, WCWP 10A-B, or WARR 11A-B.
Political Science	POLI 100E	4	UG	IC	Interest Group Politics	The theory and practice of interest group politics in the United States. Theories of pluralism and collective action, the behavior and influence of lobbies, the role of political action committees, and other important aspects of group action in politics are examined. Prerequisite: sophomore standing.

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Political Science	POLI 102E (Cross-listed with USP 107)	4	UG	IC	Urban Politics	(Same as USP107) This survey course focuses upon the following six topics: the evolution of urban politics since the mid-nineteenth century; the urban fiscal crisis; federal/urban relationships; the "new" ethnic politics; urban power structure and leadership; and selected contemporary policy issues such as downtown redevelopment, poverty, and race.
Political Science	POLI 103A (Cross-listed with USP 109)	4	UG	IC	California Government and Politics	This survey course explores six topics: 1) the state’s political history; 2) campaigning, the mass media, and elections; 3) actors and institutions in the making of state policy; 4) local government; 5) contemporary policy issues; e.g., Proposition 13, school desegregation, crime, housing and land use, transportation, water; 6) California’s role in national politics.
Political Science	POLI 103B (Cross-listed with USP 113)	4	UG	IC	Politics and Policymaking in Los Angeles	This course examines politics and policymaking in the five-county Los Angeles region. It explores the historical development of the city, suburbs, and region; politics, power, and governance; and major policy challenges facing the city and metropolitan area. Prerequisite: upper-division standing.
Political Science	POLI 103C (Cross-listed with USP 115)	4	UG	IC	Politics and Policymaking in San Diego	This course examines how major policy decisions are made in San Diego. It analyzes the region’s power structure (including the roles of non-governmental organizations and the media), governance systems and reform efforts, and the politics of major infrastructure projects. Prerequisite: Upper-division standing or consent of instructor.
Political Science	POLI 120K	4	UG	IC	Politics of Developing Countries	This course critically examines central concepts and theories of development, and assesses their utility in understanding political, economic, and social change in three regions of the developing world: Latin American, sub-Saharan Africa, and Southeast Asia.
Political Science	POLI 120P	4	UG	IC	Africa’s Success Stories	This course examines reasons why we can be cautiously optimistic about development, growth, peace and democratization in Africa. Sample cases include Botswana’s resource blessing, postconflict reconstruction in Uganda, and democratization in Ghana, Benin, and Niger.
Political Science	POLI 125	4	UG	SC	The Politics of Conservation in Developing Countries	Conservation in developing countries concerns resources that are extremely important to policymakers, militaries, environmental organizations, communities, and individuals. This course examines these groups’ struggle for control over wildlife and forests—from the capital to the village—on several continents.
Political Science	POLI 125A	4	UG	SC	Communities and the Environment	A popular new idea in environmental protection is to include local communities in conservation efforts. But what are these communities? What challenges do they face in governing their own resources? This course uses both theory and case studies to explore the political economy of community-based conservations.
Political Science	POLI 127	4	UG	IC	Politics of Development	Starting in 2017 included a module/section on climate change. This course critically examines central concepts and theories of development, and assesses their utility in understanding political, economic, and social change in the developing world. Central case studies are drawn from three regions: Latin America, Sub-Saharan Africa, and Southeast Asia. Prerequisites: upper-division standing.

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Political Science	POLI 160AA (Cross-listed with USP 101)	4	UG	IC	Introduction to Policy Analysis	(Same as USP 101) This course will explore the process by which the preferences of individuals are converted into public policy. Also included will be an examination of the complexity of policy problems, methods for designing better policies, and a review of tools used by analysts and policy makers. Prerequisite: PS 10 or 11.
Political Science	POLI 160AB	4	UG	IC	Introduction to Policy Analysis	In this course, students will use their knowledge of the political and economic foundations of public policy making to conduct research in a wide variety of public policy problems. Prerequisite: PS 160AA.
Political Science	POLI 162	4	UG	SC	Environmental Policy	This course will explore contemporary environmental issues such as global warming, endangered species, and land use. Students will be asked to analyze various policy options and to write case analyses. Policies may be debated in class.
Political Science	POLI 165	4	UG	IC	Special Topics: Policy Analysis	An undergraduate course designed to cover various aspects of policy analysis. May be repeated for credit two times, provided each course is a separate topic, for a maximum of twelve units.
Political Science	POLI 168	4	UG	IC	Policy Assessment	The use of real data to assess policy alternatives. Introduction to benefit/cost analysis, decision theory, and the valuation of public goods. Applications to health, environmental, and regulatory economic policy making.
Psychology	PSYC 130/258	4	UG/G	IC	Delay of Gratification	This course will review the research on delay of gratification. It will cover what makes it in general so tough, what situations make it possible, who can do it, and what the implications of this ability are. Prerequisite: upper-division standing.
Science Studies	HISC 163/264	4	UG/G	SC	History, Science, and Politics of Climate Change	The complex historical development of human understanding of global climate change, including key scientific work, and the cultural dimensions of proof and persuasion. Special emphasis on the differential political acceptance of the scientific evidence in the U.S. and the world. Graduate students are required to submit an additional paper.
Science Studies	PHIL 204A	4	G	IC	Core Course in Philosophy of Science	An introduction to one or more central problems in the philosophy of science, or in the philosophy of one of the particular sciences, such as the nature of confirmation and explanation, the nature of scientific knowledge, reductionism, the unity of science, or realism and antirealism. May be taken for credit three times with changed content.
Science, Technology, and Public Affairs	STPA 35	4	UG	IC	Society and the Sea	Introduction to the oceans and their relationship to humankind. Selected topics include ocean-related science, engineering, research, economics, and international relations (emphasizing countries of the Pacific Rim); living and nonliving resources; coastal zone management; military and social aspects; and the sea in weather and climate. Prerequisite: none.
Scripps Institution of Oceanography	SIO 25 (Cross-listed with ESYS 103)	4	UG	SC	Climate Change and Society	Climate change is one of the most complex and critical issues affecting societies today. This course will present the scientific evidence for climate change and its impacts and consider governmental policy responses and possible adaptation strategies.
Scripps Institution of Oceanography	SIO 15	4	UG	IC	Natural Disasters	Introduction to environmental perils and their impact on everyday life. Geological and meteorological processes, including earthquakes, volcanic activity, large storms, global climate change, mass extinctions throughout Earth’s history, and human activity that causes and prevents natural disasters. Prerequisite: none.

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Scripps Institution of Oceanography	SIO 16	4	UG	IC	Geology of the National Parks	An introduction to fundamental concepts of geology and environmental science through the lens of the national park system. Topics covered include the geologic time scale; plate tectonics; igneous, metamorphic, and sedimentary processes; geomorphology; climate change; and environmental degradation.
Scripps Institution of Oceanography	SIO 20	4	UG	IC	The Atmosphere	Descriptive introduction to meteorology and climate studies. Topics include global and wind and precipitation patterns, weather forecasting, present climate and past climate changes (including droughts, El Niño events), "greenhouse" gas effects, ozone destruction, the "little ice age," acid rain. Prerequisite: none.
Scripps Institution of Oceanography	SIO 30	4	UG	IC	The Oceans	Presents modern ideas and descriptions of the physical, chemical, biological, and geological aspects of oceanography, and considers the interactions between these aspects. Intended for students interested in the oceans, but who do not necessarily intend to become professional scientists. Prerequisite: none.
Scripps Institution of Oceanography	SIO 35	4	UG	IC	Water	This course will examine the properties of water that make it unique and vital to living things. Origin of water on Earth and neighboring planets will be explored. Socially relevant issues concerning water use and contamination will be covered. Prerequisite: none.
Scripps Institution of Oceanography	SIO 40	4	UG	SC	Life and Climate on Earth	Explores life on Earth and its relationship to the environment—past, present, and future. Topics include origins of life, earth history, elemental cycles, global climate variability and human impacts on our environment.
Scripps Institution of Oceanography	SIO 50	6	UG	IC	Introduction to Earth and Environmental Sciences	Starting in 2017, this course included a module/section on climate change. This course is an introduction to how our planet works, focusing on the formation and evolution of the solid earth, and the processes affecting both its surface and interior. Laboratories and substantial field component complement and extend the lecture material. Program and/or material fee may apply
Scripps Institution of Oceanography	SIO 90	1	UG	IC	Undergraduate Seminar	Perspectives on ocean sciences. This seminar introduces students to exciting and current research topics in ocean science as presented by faculty and researchers at Scripps Institution of Oceanography.
Scripps Institution of Oceanography	SIO 101	4	UG	IC	California Coastal Oceanography	This course examines oceanographic connections between physical and climate forcing and marine ecosystem responses in the California coastal environment. Approach is inquiry-based, combining classroom and experiential learning to build critical and quantitative thinking and research insights and abilities. Prerequisite: SIO 30, Chem. 6A, or consent of instructor.
Scripps Institution of Oceanography	SIO 112	4	UG	IC	Urban Landscapes	Introduction to scientific principles, such as conservation of mass and energy and pattern formation, that govern the development of urban centers as complex systems. Contrasts between natural and urban landscapes will be highlighted, with examples including water routing and disease transmission. Prerequisite: upper-division standing or consent of instructor.
Scripps Institution of Oceanography	SIO 115	4	UG	IC	Ice and the Climate System	This course examines the Earth's cryosphere, including glaciers, ice sheets, ice caps, sea ice, lake ice, river ice, snow, and permafrost. We cover the important role of the cryosphere in the climate systems and its response to climate change.

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Scripps Institution of Oceanography	SIO 117	4	UG	IC	The Physical Climate System	This course quantitatively examines the physical processes controlling Earth’s climate including radiative transfer and energy balance, atmospheric and ocean circulations, clouds and the hydrological cycle, climate sensitivity and climate feedbacks, and natural and anthropogenic climate change. Prerequisites: Math. 20A-B-C and Phys. 2A-B-C or consent of instructor.
Scripps Institution of Oceanography	SIO 142	4	UG	IC	Atmospheric Chemistry and the Biochemical Cycles of Atmospheric Trace Gases	Evolution and processes of the Earth’s atmosphere. Topics include effects of “greenhouse” gases such as H ₂ O, CO ₂ and CH ₄ in climate modification, destruction of the ozone layer, biogeochemical cycles of radioactively important trace gases and atmospheres of other terrestrial planets. Prerequisites: Chem. 6 sequence or consent of instructor. (
Scripps Institution of Oceanography	SIO 148/248	6	UG/G	IC	Evolution of Earth’s Biosphere	Paleoecological development of marine and terrestrial environments during Earth’s evolution. Ecological and chemical evolution of the oceans, atmosphere, biogeochemical cycles, and environments with particular emphasis on the long-term history and climate of the Earth’s surface. Prerequisites: undergraduate: SIO 104 or consent of instructor. graduate: graduate-level standing or consent of instructor. Additionally, at graduate level oral presentation or research paper required.
Scripps Institution of Oceanography	SIO 152	4	UG	IC	Petrology and Petrography	Mineralogic, chemical, textural and structural properties of igneous, metamorphic, and sedimentary rocks; their origin and relations to evolution of the Earth’s crust and mantle. Laboratory emphasizes hand specimens and microscopic studies of rocks in thin sections.
Scripps Institution of Oceanography	SIO 182	4	UG	IC	Environmental and Explorational Geophysics	Theory and practice of nonseismic geophysics for groundwater, environmental, and exploration purposes. Lectures are supplemented by collection of gravity, magnetic, and resistivity data; data analysis; and report writing. Includes an introduction to Matlab as a tool for geophysical data interpretation.
Scripps Institution of Oceanography	SIO 186	4	UG	SC	Interactions Between Humans and the Natural Environment	As human population and resource usage have increased, the character of human interactions with nonhuman natural systems on Earth’s surface has changed dramatically. This course will survey tools for characterizing this change, its nature, and projections into the future. Prerequisites: upper-division standing or consent of instructor
Scripps Institution of Oceanography	SIO 189	4	UG	SC	Pollution, Environment, and Health	The goal is to understand the scope of the pollution problem facing the planet. Students will learn the properties of chemicals in the environment and survey the biological mechanisms that determine their accumulation and toxicity.
Scripps Institution of Oceanography	SIO 201	4	G	IC	Geological Record of Climate Change	Introduction to geological archives; the tools for paleoclimate reconstruction and a sampling of important issues from the geological record, including the development of “greenhouse” and “icehouse” worlds, the origin and evolution of glacial cycles, and the origin of “millennial scale” climate variability. Prerequisite: chemistry and physics required for graduate admission to SIO, SIO 101 or equivalent, or consent of instructor.
Scripps Institution of Oceanography	SIO 206	4	G	IC	Land Surface Hydrology	Advanced introduction to natural processes that govern water occurrence and transport over the land surface. Principles of global hydrologic cycle and land-surface water balance, runoff and fluvial geomorphology, infiltration and subsurface water flow, evaporation and plant transpiration

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Scripps Institution of Oceanography	SIO 214B (Cross-listed with MAE 224)	4	G	IC	Environmental Fluid Dynamics	Single-layer flows with a free surface, two-layer flows including exchange flows in harbors, estuaries, seas, and buildings. Continuously stratified flows with meteorological and oceanographic applications. Topographic effects, plumes, jets, and thermals.
Scripps Institution of Oceanography	SIO 217A	4	G	IC	Atmospheric and Climate Sciences I	Thermodynamics and statics of dry and moist air, atmospheric composition, Earth radiation budget, vertical structure of the atmosphere, global energy balance, thermodynamic feedbacks in the climate system. Prerequisites: undergraduate general physics and mathematics through differential equations.
Scripps Institution of Oceanography	SIO 217B	4	G	IC	Atmospheric and Climate Sciences II	Structure of multitude synoptic systems; equations of motion, scale analysis, elementary applications and wave solutions; baroclinic instability theory; atmospheric general circulation and energetics; tropical dynamics; relationships between atmospheric dynamics, CO2 clouds, precipitation, and other weather and climate phenomena. Prerequisite: SIO 217A.
Scripps Institution of Oceanography	SIO 217C	4	G	IC	Atmospheric and Climate Sciences III	Physical and dynamical processes that determine climate and climate change; role of aerosols; water vapor; CO2 and other greenhouse gases; cloud-radiative interactions; atmospheric general circulation; role of convection; tropical climate including El Niño. Prerequisites: SIO 217A and 217B or equivalent background.
Scripps Institution of Oceanography	SIO 220	4	G	IC	Observations of Large-Scale Ocean Circulation	General circulation of the oceans; tropical, subtropical, and high-latitude current systems of the Atlantic, Indian, and Pacific Oceans and marginal seas; ocean heat flux and thermohaline circulations; observational basis of large-scale dynamics. Prerequisite: SIO 210.
Scripps Institution of Oceanography	SIO 243	4	G	IC	Marine Paleoecology	Paleoecology of marine plankton, nekton, and benthos. Patterns and changes in marine communities and ecosystems over geological time in relation to changes in the physical, chemical, and geological environment and biotic interactions. The preservation filter and inference of ecological processes from fossils and biogeochemical proxies. Biotic interchanges, incumbency, escalation and trends, mass extinctions, and recovery. Lectures, seminar discussion, laboratory, and field trips. Prerequisites: bachelor's degree in science or consent of instructor; open to undergraduates with completion of SIO 104 and either BIEB 130 or BIEB 140, or equivalent.
Scripps Institution of Oceanography	SIO 248	4	G	IC	Evolution of Earth's Biosphere	Paleoecological development of marine and terrestrial environments during Earth's evolution. Ecological and chemical evolution of the oceans, atmosphere, biogeochemical cycles, and environments with particular emphasis on the long-term history and climate of the Earth's surface. Additionally, at graduate level oral presentation or research paper required. Conjoined with SIO 148. Prerequisite: graduate-level standing or consent of instructor.
Scripps Institution of Oceanography	SIO 258	1	G	IC	Special Topics/Marine Biology-MAS-MBC Forum	Required course for MAS-MBC students will focus on development of MAS Capstone Projects and discussions covering marine conservation issues, including informal student presentations on political, economic, historical, educational, and natural science issues related to conservation and analysis of marine biodiversity.
Scripps Institution of Oceanography	SIO 262	1	G	IC	Seminar in Marine Natural Products	Students will give seminars on current research topics in marine natural products chemistry. Prerequisite: graduate standing or consent of instructor. (S/U grades only.) Fenical (F,W,S)

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Scripps Institution of Oceanography	SIO 263	4	G	IC	Marine Chemical Biology Seminar	Students will give seminars on current research topics that span the interface of marine chemistry and marine biology. Topics will include natural products chemistry, biotechnology, biogeochemistry, and biochemistry relating to marine systems. May be taken for credit eighteen times
Scripps Institution of Oceanography	SIO 264	4	G	IC	Special Topics in Marine Natural Products Chemistry	This course provides the foundation for advanced study in the field of marine natural products chemistry. Topics vary from the history of natural products to the organic chemistry of terpenes, alkaloids, acetogenins, and other natural product classes. Varying by topic quarterly, this class is given each quarter and may be repeated. Prerequisite: one year general organic chemistry.
Scripps Institution of Oceanography	SIO 265	4	G	IC	Chemical Ecology of Marine Organisms	An outline of the organic chemicals from marine organisms with special reference to their function in the marine environment. The differences between terrestrial and marine natural products will be stressed. Prerequisite: basic organic chemistry.
Scripps Institution of Oceanography	SIO 268	1	G	IC	Seminar in Geochemistry and Marine Chemistry	Student seminars on topics related to geochemistry and the chemistry of the marine environment. (S/U grades only.) Dickson (S)
Scripps Institution of Oceanography	SIO 270	4	G	IC	Pelagic Ecology	An analysis of the concepts and theories used to explain the biological events observed in the water column. Alternate years. Prerequisites: SIO 210, 280, or consent of instructor.
Scripps Institution of Oceanography	SIO 270A	4	G	IC	Fisheries Oceanography	Aspects of marine ecology relevant to the reproduction, survival, and distribution of commercially important marine species. Alternate years only. Prerequisites: SIO 210 and 280, or consent of instructor.
Scripps Institution of Oceanography	SIO 275A	4	G	IC	Benthic Ecology	Evolution and maintenance of benthic communities from the terrestrial margins to the deep sea. Special emphasis will be placed on physical and biological scaling and processes determining patterns of distribution and abundance; interrelationships between community structure and population phenomena, including trophic relationships, reproductive and recruitment patterns, succession, and life history biology. Offered in alternate years with SIO 275B. Prerequisite: consent of instructor; open to undergraduates. (S/U grades permitted.) Levin, Dayton (W)
Scripps Institution of Oceanography	SIO 276L	4	G	IC	Quantative Ecology Project Lab	A laboratory complement to SIO 276, to apply quantitative tools to conceptual issues underlying the study of the dynamics and structure of ecological systems.
Scripps Institution of Oceanography	SIO 275B	4	G	IC	Natural History of Coastal Habitats	Two three-hour laboratories per week, three four-six day field trips to sites from Mexico to Monterey Bay. Several one-day field trips to local habitats including lagoons, sand and rock intertidal habitats, areas of marine fossils, and areas with migrating birds. Format of course variable depending on student interests. Alternate years with 275A. Prerequisites: open to undergraduates with consent of instructor and completion of BIEB 130, Introductory Marine Ecology.
Scripps Institution of Oceanography	SIO 276	4	G	IC	Quantitative Theory of Populations and Communities	An introduction to the quantitative tools and conceptual issues underlying the study of the dynamics and structure of ecological systems. Prerequisite: calculus (three quarters) or consent of instructor. (S/U grades permitted.) Sugihara (F)

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Scripps Institution of Oceanography	SIO 277	4	G	IC	Deep-sea Biology	The ecology, zoogeography, taxonomy, and evolution of deep-sea organisms, with emphasis on the benthos. Course includes one day cruise to the San Diego Trough to examine deep sea organisms (700–1200 meters) (two-hour steam from Point Loma). Offered alternate years. Prerequisites: graduate standing or consent of instructor. Levin (W)
Scripps Institution of Oceanography	SIO 278	2	G	IC	Seminar in Ocean Biosciences	Presentations of reports, review of literature, and discussion of current research in the marine biological and oceanographic sciences. (S/U grades permitted.) Staff (F,W,S)
Scripps Institution of Oceanography	SIO 279	4	G	IC	Special Topics Biological Oceanography	(S/U grades permitted.) Staff (F, W, S)
Scripps Institution of Oceanography	SIO 280	4	G	IC	Biological Oceanography	The biology and ecology of marine plankton, nekton, and benthos. Emphasis will be on processes regulating species, community, and ecosystem patterns and changes, including productivity, trophic relationships and species interactions with the physical, chemical, and geological environment. One or more field trips. Prerequisite: bachelor's degree in science or consent of instructor. Franks or Checkley, Levin (F)
Scripps Institution of Oceanography	SIO 281	4	G	IC	Marine Physiology	Biochemical and physiological mechanisms of adaptation of organisms to the marine environment. Special emphasis is on biological responses to temperature, salinity, carbon dioxide, pH and bicarbonate levels. Prerequisites: graduate standing or consent of instructor. Tresguerres
Scripps Institution of Oceanography	SIO 282	4	G	IC	Phytoplankton Diversity	Molecular, biochemical, ecological, and evolutionary perspectives on the diversity of eukaryotic and prokaryotic phytoplankton. Prerequisites: consent of instructor. Palenik (W)
Scripps Institution of Oceanography	SIO 283	5	G	IC	Phycology: Marine Plant Biology	Lecture and laboratory course emphasizing the biology, ecology and taxonomy of marine plants and seaweeds. Laboratory work mainly involves examination, slide preparation and dissection of fresh material collected locally. An oral presentation on a current research topic is required. Program or course fee may apply. Graduate students, additionally, are required to write a research paper. Offered in alternate years. Prerequisites: graduate standing or consent of instructor. J. Smith (W)
Scripps Institution of Oceanography	SIO 286	4	G	IC	Marine Science, Economics and Policy	This course investigates global issues in marine conservation and potential policy solutions. The approach is interdisciplinary, fast-paced, and discussion oriented. Students will become acquainted with sufficient background in marine biology, ecology, marine and conservation economics, international law, and policy as preparation for participation in discussion on real-world issues in marine conservation. Topics and instructors change each quarter. Prerequisite: graduate standing or consent of instructor. (S/U grades permitted) Staff (F,W)
Scripps Institution of Oceanography	SIO 289	4	G	SC	Pollution, Environment, and Health	The goal is to understand the scope of the pollution problem facing the planet. Students will learn the properties of chemicals in the environment and survey the biological mechanisms that determine their accumulation and toxicity. Graduate students will also be required to write a research paper.

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Scripps Institution of Oceanography	SIO 290	4	G	IC	Marine Biology	An introduction to the field of marine biology, especially to the diversity of marine organisms at all taxonomic levels and their adaptations to the marine environment. Prerequisite: graduate standing. Palenik and Staff (W)
Scripps Institution of Oceanography	SIO 295S	8	G	IC	Introduction to Marine Biodiversity and Conversation-Seminar	Lectures on ecological, economic, social, and legal issues related to marine biodiversity and case studies on socioeconomic and legal issues. Students are expected to attend field trips at sea and to various sites around San Diego County as a part of the corequisite course. Students who have taken SIO 295 may not receive credit for SIO 295S.
Scripps Institution of Oceanography	SIO 295LS	8	G	IC	Introduction to Marine Biodiversity and Conversation-Lab	Laboratory work on major biological taxa, field trips on biodiversity in situ, computer labs for informatic tools. Students are expected to attend field trips at sea and to various sites around San Diego County as a part of the course.
Scripps Institution of Oceanography	SIO 296	(1-5)	G	IC	Special Topics in Marine Biology	Example topics are reproduction in marine animals, adaptation to marine environments, larval biology, marine fisheries, macromolecular evolution, physical chemical topics in physiology, philosophy of science. (S/U grades permitted.) Staff (F,W,S)
Sociology	SOCI 10	4	UG	IC	American Society: Social Structure and Culture in the U.S.	Starting in 2017 included a module/section on climate change. An introduction to American society in historical, comparative, and contemporary perspectives. Topics will include American cultural traditions; industrialization; class structure; the welfare state; ethnic, racial, and gender relations; the changing position of religion; social movements; and political trends. Will not receive credit for SOCI 10 and SOCL 10.
Sociology	SOCI 20	4	UG	IC	Social Change in the Modern World	A survey of the major economic, political, and social forces that have shaped the contemporary world. The course will provide an introduction to theories of social change, as well as prepare the student for upper-division work in comparative-historical sociology. (This is a required course for the sociology major.)
Sociology	SOCI 30	4	UG	SC	Science, Technology, and Society	A series of case studies of the relations between society and modern science, technology, and medicine. Global warming, reproductive medicine, AIDS, and other topical cases prompt students to view science-society interactions as problematic and complex.
Sociology	SOCI 115	4	UG	IC	Social Problems	Analyzes selected social problems in the United States, such as those regarding education, race relations, and wealth inequality, from various sociological perspectives, and also examines the various sites of debate discussion, like political institutions, TV and other media, and religious institutions. Prerequisite: upper-division standing and co-requisite of 0-unit AIP.
Sociology	SOCI 149	4	UG	SC	Sociology of the Environment	The “environment” as a socially and technically shaped milieu in which competing values and interests play out. Relation of humanity to nature; conflicts between preservation and development; environmental pollution and contested illnesses.
Sociology	SOCI 153	4	UG	IC	Urban Sociology	(Same as USP 105.) Introduces students to the major approaches in the sociological study of cities and to what a sociological analysis can add to our understanding of urban processes. Prerequisites: upper-division standing or consent of instructor. Will not receive credit for SOCI 153 and SOCC 153.

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Sociology	SOCI 171	4	UG	SC	Technology and Science	Does improved technology mean progress? Or, are environmental pollution and social alienation signs that technology is out of control? This class uncovers the social problems of key modern technologies such as automobile transport, factory farming, biotechnology, and nuclear power.
Theatre and Dance	THE 1	4	UG	IC	Introduction to Theatre	Starting in 2017 included a module/section on climate change. An introduction to fundamental concepts in drama and performance. Students will attend performances and learn about how the theatre functions as an art and as an industry in today's world. Prerequisites: none.
Urban Studies and Planning	USP 1	4	UG	IC	History of US Urban Communities	This course charts the development of urban communities across the United States both temporally and geographically. It examines the patterns of cleavage, conflict, convergence of interest, and consensus that have structured urban life. Social, cultural, and economic forces will be analyzed for the roles they have played in shaping the diverse communities of America's cities.
Urban Studies and Planning	USP 2	4	UG	SC	Urban World System	Examines cities and the environment in a global context. Emphasizes how the world's economy and the earth's ecology are increasingly interdependent. Focuses on biophysical and ethicosocial concerns rooted in the contemporary division of labor among cities, Third World industrialization, and the post-industrial transformation of U.S. cities.
Urban Studies and Planning	USP 3	4	UG	IC	The City and Social Theory	An introduction to the sociological study of cities, focusing on urban society in the United States. Students in the course will examine theoretical approaches to the study of urban life; social stratification in the city; urban social and cultural systems—ethnic communities, suburbia, family life in the city, religion, art, and leisure.
Urban Studies and Planning	USP 100	4	UG	IC	Introduction to Urban Planning	This course is designed to provide an introduction to the fundamentals of urban planning. It surveys important topics in urban planning, including economic development, urban design, transportation, environmental planning, housing, and the history of urban planning. Prerequisite: upper-division standing or consent of instructor.
Urban Studies and Planning	USP 102C	4	UG	SC	Cognitive Design Studio	Students will conduct research and develop a conceptual design to address a research theme of the university: to understand and protect our planet.
Urban Studies and Planning	USP 116	4	UG	IC	California Local Government: Finance and Administration	This course surveys public finance and administration. It focuses upon California local governments—cities, counties, and special districts—and also examines state and federal relationships. Topics explored include revenue, expenditure, indebtedness, policy responsibilities, and administrative organization and processes. Prerequisites: upper-division standing.
Urban Studies and Planning	USP 120	4	UG	IC	Urban Planning, Infrastructure, and Real Estate	This course will explore the interrelationships of urban planning, public infrastructure, and real estate development. These three issues are critical to an examination of the major challenges facing California's and America's major metropolitan centers. Prerequisites: upper-division standing or consent of instructor.
Urban Studies and Planning	USP 121	4	UG	IC	Real Estate Law and Regulation	Examination of regulation of real estate development, as it affects landowners, developers and others private sector actors. Includes underlying public policies, establishment and enforcement of laws and regulations, application of regulations to individual projects, and political considerations in implementing regulations. Prerequisites: upper-division standing or consent of instructor.

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Urban Studies and Planning	USP 122	4	UG	IC	Redevelopment Planning, Policymaking, and Law	This course examines key elements of land use, planning, and law as related to urban redevelopment. It focuses on San Diego case studies, including the Petco Park/East Village redevelopment project and the Naval Training Center (NTC) Redevelopment Area (Liberty Station). Prerequisites: upper-division standing or consent of instructor.
Urban Studies and Planning	USP 123	4	UG	IC	Law, Planning, and Public Policy	Examination of the intersection of law and policy, in the form of processes and institutions, as they affect decision-making and program implementation in urban planning and design. Opportunities and constraints in making law and policy. Application to specific case examples. Prerequisites: upper-division standing or consent of instructor.
Urban Studies and Planning	USP 124	4	UG	IC	Land Use Planning	Introduction to land use planning in the United States: zoning and subdivision, regulation, growth management, farmland preservation, environmental protection, and comprehensive planning. Prerequisite: upper-division standing or consent of instructor.
Urban Studies and Planning	USP 126	4	UG	SC	Comparative Land Use and Resource Management	This course evaluates alternative land use, regulatory, and land transfer approaches to the US regime. Considered are overseas reform models for comprehensive land use and resource management and their effects on environmental justice, resource sustainability, and management efficiency and innovation. Prerequisites: upper-division standing.
Urban Studies and Planning	USP 129 (Cross-listed with ETHN 190)	4	UG	IC	Research Methods: Studying Racial and Ethnic Communities	The course offers students the basic research methods with which to study ethnic and racial communities. The various topics to be explored include human and physical geography, transportation, employment, economic structure, cultural values, housing, health, education, and intergroup relations. Prerequisites: upper-division standing or consent of instructor.
Urban Studies and Planning	USP 130 (Cross-listed with ETHN 107)	4	UG	IC	Fieldwork in Racial and Ethnic Communities	This is a research course examining social, economic, and political issues in ethnic and racial communities through fieldwork. Topics are examined through a variety of research methods that may include interviews and archival, library, and historical research. Prerequisites: upper-division standing.
Urban Studies and Planning	USP 133 (Cross-listed with SOC 152)	4	UG	IC	Social Inequality and Public Policy	Primary focus on understanding and analyzing poverty and public policy. Analysis of how current debates and public policy initiatives mesh with alternative social scientific explanations of poverty. Prerequisites: upper-division standing.
Urban Studies and Planning	USP 134	4	UG	IC	Community Youth Development	This course examines the integration of youth development and community development in theory and practice as a strategy for addressing adultism. Analyze cases through a cultural lens where local, national, and international youth movements have helped make community development more responsive, inclusive, and culturally sensitive. Prerequisites: upper-division standing.
Urban Studies and Planning	USP 136	4	UG	IC	Collaborative Community Leadership	Provides an overview of collaborative leadership and considers consensus organizing as both a tactical and strategic approach to effective community building and development. Examines how various communities have approached collaborative leadership, consensus organizing, and community building. Prerequisites: upper-division standing.
Urban Studies and Planning	USP 137	4	UG	IC	Housing and Community Development Policy and Practice	History, theory, and practice of U.S. housing and community development. Public, private, and nonprofit sectors shape and implement planning and policy decisions at the federal, state, local and neighborhood levels. Prerequisite: upper-division standing.

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Urban Studies and Planning	USP 138	4	UG	IC	Urban Economic Development	This course focuses on strategies that policy makers and planners use in their efforts to foster healthy economies. Topics include theories of urban economic development, analytical techniques for describing urban economies, and the politics and planning of economic development. Prerequisites: upper-division standing.
Urban Studies and Planning	USP 139	4	UG	IC	Urban Design and Economic Development	This course explores emerging trends in urban design and economic development and their interrelationship. The course focuses on selected community projects and also considers urban governance structures. Various research methods will be applied to urban problems. Prerequisites: upper-division standing.
Urban Studies and Planning	USP 144	4	UG	IC	Environmental and Preventative Health Issues	This course will analyze needs of populations, highlighting current major public health problems such as chronic and communicable diseases, environmental hazards of diseases, psychiatric problems and additional diseases, new social mores affecting health maintenance, consumer health awareness and health practices, special needs of economically and socially disadvantaged populations. The focus is on selected areas of public and environmental health, namely: epidemiology, preventive services in family health, communicable and chronic disease control, and occupational health. Prerequisite: upper-division standing or consent of instructor.
Urban Studies and Planning	USP 146	4	UG	IC	Research Methods for Built Environment and Active Living	This course examines urban design's effects on physical activity. In field experience settings, students will learn about survey, accelerometer, observation, and GIS methods. Quality control, use of protocols, relevance to all ages, and international applications will also be emphasized. Prerequisites: upper-division standing.
Urban Studies and Planning	USP 147	4	UG	IC	Case Studies in Health-Care Programs/Poor and Underserved Population	The purpose of this course is to identify the special health needs of low income and underserved populations and to review their status of care, factors influencing the incidence of disease and health problems, and political and legislative measures related to access and the provision of care. Selected current programs and policies that address the health-care needs of selected underserved populations such as working poor, inner city populations, recent immigrants, and persons with severe disabling mental illnesses will be studied. Offered in alternate years. Prerequisites: upper-division standing or consent of instructor. (Offered spring quarter.)
Urban Studies and Planning	USP 149	4	UG	IC	Madness and Urbanization	This course will provide a historical and theoretical orientation for contemporary studies of the experience of mental illness and mental health-care policy in the American city, with critical attention to racial and ethnic disparities in diagnosis, treatment, and outcomes. Prerequisites: upper-division standing or consent of instructor.
Urban Studies and Planning	USP 154 (Cross-listed with POLI 111B)	4	UG	IC	Global Justice in Theory and Action	Discuss the idea of justice from multiple perspectives: theory, philosophy, institutions, markets, social mobilization, politics, and environment. Examine the assets and capabilities of diverse justice-seeking organizations and movements aimed at improving quality of life and place locally, regionally, and globally. Prerequisites: upper-division standing.
Urban Studies and Planning	USP 166	4	UG	IC	History of San Diego	Course surveys the social, political, economic, cultural and environmental history of the San Diego region from pre-colonial times to the present, with an emphasis on the urban development that has occurred since 1900. Prerequisite: upper-division standing.

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Urban Studies and Planning	USP 170	4	UG	SC	Sustainable Planning	This course will explore the different factors and processes that shape a sustainable city. Contemporary green planning techniques and values will be evaluated. The course will also discuss planning, designing, and implementation of sustainable facilities that will reduce sprawl. Prerequisites: upper-division standing or consent of instructor.
Urban Studies and Planning	USP 171	4	UG	SC	Sustainable Development	Sustainable development is a concept invoked by an increasingly wide range of scholars, activists, and organizations dedicated to promoting environmentally sound approaches to economic development. This course critically examines the diverse, often contradictory, interests in sustainability. It provides a transdisciplinary overview of emergent theories and practices. Prerequisites: upper-division standing.
Urban Studies and Planning	USP 173	4	UG	IC	History of Urban Planning and Design	The analysis of the evolution of city designs over time; study of the forces that influence the form and content of a city: why cities change; comparison of urban planning and architecture in Europe and the United States. Prerequisite: upper-division standing.
Urban Studies and Planning	USP 174	4	UG	IC	Regional Governance and Planning Reconsidered	Regional planning and local governance in California, focusing upon San Diego. Current system, the state/local relationship, and the incentives and disincentives for restructuring regional and local governance and planning. Prerequisite: upper-division standing.
Urban Studies and Planning	USP 175	4	UG	IC	Site Analysis: Opportunities and Constraints	Introduction to the theory and practice of context-sensitive site analysis, including site selection and programming, site inventory and analysis, and conceptual design. Demonstrates uses of GIS-based sketch planning tools for suitability analysis and project visualization in real world settings. Prerequisites: upper-division standing.
Urban Studies and Planning	USP 176	4	UG	IC	Binational Regional Governance	This course explores governance and planning challenges in the California/Baja California binational region. What are the roles of federal, state, and local governments in addressing issues of transportation, land use, water/wastewater management, and safety and security? Prerequisites: upper-division standing or consent of instructor.
Urban Studies and Planning	USP 177	4	UG	IC	Urban Design Practicum	This course is designed to introduce the student to the theory and practice of urban design, the form of the built environment, and how it is created. There is an emphasis on the development within a larger urban context. Prerequisites: upper-division standing or consent of instructor.
Urban Studies and Planning	USP 178	4	UG	IC	Urban Design for Redevelopment	This course addresses inner-city and suburban redevelopment focusing on urban design, ecological, and ethnic issues using advanced physical planning and urban design methods. Also included will be the environmental-impact assessments of redevelopment projects. Prerequisite: upper-division standing.
Urban Studies and Planning	USP 180	4	UG	IC	Transportation Planning	Introduction to the history and current state of urban transportation planning, including the relationship between transportation and urban form; role of automotive, mass transit, and alternative modes; methods for transportation systems analysis; decision-making, regulatory, and financing mechanisms; and public attitudes. Prerequisite: upper-division standing.
Urban Studies and Planning	USP 181	4	UG	IC	Public Transportation	Livable cities rely on balanced transportation systems that can mitigate the negative impacts of a car-oriented environment and society. This course will explore the role of public transit in creating a balanced transportation system. A variety of public transportation systems will be analyzed. Prerequisite: upper-division standing or consent of instructor.

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Visual Arts	VID 110G	4	UG	IC	The Natural and Altered Environment	Explores the natural and altered environment as a basis for subject as well as placement of work pertaining to the environment. Prerequisites: two from VIS 104CN, 105C, 106C, 107CN and 147B.
Visual Arts	VIS 213	4	G	IC	Public Space	An exploration of what public space is and how it operates, with a view toward an expanded context for considering how public artwork can operate within it. Included are areas such as mass media, activism, community action, computer networks, ecology, and alternative forums.
Warren College	WCWP 10A and 10B	4	UG	IC	The Writing Course (Warren College) and Entry Level Writing	Starting in 2017 included a module/section on climate change. A seminar-style course in reading and writing required of all Warren College students. The course emphasizes argumentation and critical writing based on sources. Letter grades only. Prerequisites: satisfaction of the UC Entry Level Writing Requirement and must be a Warren College student. Junior/senior standing students need department approval prior to registering.
				Sustainability courses:		
				UG	43	
				G	11	
				Courses that include sustainability in some way:		
				UG:	248	
				G:	147	