Department				
(Academic	Course			
Unit)	Number	Title	Description	Email
			Case-study-based introduction to statistical methods	
		Statistical	as practiced in the biological, environmental, and	
		Methods for the	health sciences. Descriptive methods, experimental	
		Biological,	design, probability, interval estimation, hypothesis	
		Environmental,	testing, one- and two-sample problems, power and	
Applied Math		and Health	sample size calculations, simple correlation and	
and Statistics	AMS 7	Sciences	simple linear regression, one-way analysis of	
			Case-study-based introduction to statistical methods	
		Statistical	as practiced in the biological, environmental, and	
		Methods for the	health sciences. Descriptive methods, experimental	
		Biological,	design, probability, interval estimation, hypothesis	
		Environmental,	testing, one- and two-sample problems, power and	
Applied Math		and Health	sample size calculations, simple correlation and	
and Statistics	AMS 7L	Sciences	simple linear regression, one-way analysis of	
			How can cultural anthropology help us to understand	
			current events unfolding locally, nationally, and	
		Public Life and	globally? Students learn how to "read" newspapers	
		Contemporary	differently—that is, through the lens of cultural	
Antrhopology	ANTH 4	Issues	analysis. The world of everyday politics and society,	
			Explores the major environmental factors	
			(temperature, altitude, diet, and disease); how they	
		Human	are perceived by the human body; the physiological,	
Antrhopology	ANTH 104	Adaptability	micro- and macroanatomical responses; and how	
			Examines recent approaches to study of nature and	
			the environment. Considers historical relationship	
l		Anthropology and	between nature, science, and colonial expansion as	
Antrhopology	ANTH 146	the Environment	well as key issues of contemporary environmental	
			Critically examines food as a fundamental aspect of	
			social and cultural life and key concept in the	
.		The Anthropology	development of anthropological theory and methods.	
Antrhopology	ANTH 161	of Food	Topics include: power relationships; community	

		•		
			Survey of the ecological and archaeological evidence	
			for the origins of plant and animal domestication in	
			Africa, Eurasia, and the Americas. Discussion will	
		Origins of	center on the preconditions of this drastic alteration	
Antrhopology	ANTH 173	Farming	in human ecology and its consequences in	
		Science and	Considers the practical and epistemological	
		Justice:	necessity of collaborative research in the	
		Experiments in	development of new sciences and technologies that	
Antrhopology	ANTH 267A	Collaboration	are attentive to questions of ethics and justice.	
			Survey of the ecological and archaeological evidence	
			for the origins of plant and animal domestication in	
			Africa, Eurasia, and the Americas. Discussion will	
		Origins of	center on the preconditions of this drastic alteration	
Antrhopology	ANTH 273	Farming	in human ecology and its consequences in	
			Introduction to ecology and evolution covering	
			principles of evolution at the molecular, organismal,	
Ecology and			and population levels. Evolutionary topics include	
Evolutionary		Ecology and	genetic and phenotypic variation, natural selection,	
Biology	BIOE 20C	Evolution	adaptation, speciation, and macroevolution. Also	
Ecology and			Focuses on physiological, behavioral, and population	
Evolutionary			ecology, and on linking ecological processes to	
Biology	BIOE 107	Ecology	evolution. It includes basic principles, experimental	
Ecology and			Paradigms and designs in marine ecology. A review	
Evolutionary			of the paradigms that have shaped our	
Biology	BIOE 108	Marine Ecology	understanding of marine ecology; analysis and	
Ecology and			An examination of the history and mechanisms of	
Evolutionary			evolutionary change. Topics include molecular	
Biology	BIOE 109	Evolution	evolution, natural and sexual selection, adaptation,	
			Provides an overview of the physical, chemical, and	
Ecology and			biological processes that characterize inland waters	
Evolutionary		Freshwater	such as lakes, streams, rivers, and wetlands. Also	
Biology	BIOE 155	Ecology	addresses relationships between humans and	

			Total immersion in marine ecology for very	
			motivated students. Students develop a research	
			project during first five weeks on campus and then	
			spend five weeks of immersion in directed research	
			without distraction in isolated locations off campus	
			(past locations include the Gulf of California in	
			Mexico and Moorea in French Polynesia). Not	
			available through University Extension. No other	
			courses may be taken during this quarter. Students	
			must sign a contract agreeing to standards of	
			behavior outlined in the UCSC Rule Book and by the	
			instructors. Students are billed a materials,	
Ecology and			transportation (not airfare), and room and board	
Evolutionary		Field Quarter-	fee. Paradigms and designs in marine ecology. A	
Biology	BIOE 159 A	Marine Ecology	review of the paradigms that have shaped our	
, , , , , , , , , , , , , , , , , , ,		<u> </u>	Integrated treatment of coral reefs, sea grasses, and	
			mangroves emphasizing interactions and processes	
Ecology and		Ecology of Reefs,	through time. Major topics: biological and geological	
Evolutionary		Mangroves, and	history, biogeography, evolution and ecology of	
Biology	BIOE 163	Seagrasses	dominant organisms, biodiversity, community and	
Ecology and		Ecology of Reefs,	An interdisciplinary laboratory exploration of the	
Evolutionary		Mangroves, and	anatomy, morphology, adaptations, diversity,	
Biology	BIOE 163L	Seagrasses	evolution, and ecology of corals, mangroves, and	
			Initially undertakes an in-depth comparison of the	
			biology and conservation of marine versus terrestrial	
Ecology and		Marine	ecosystems. With this foundation, course examines	
Evolutionary		Conservation	marine biodiversity loss resulting from	
Biology	BIOE 165	Biology	overexploitation, habitat loss, species introduction,	
Biomolecular		Introduction to	Introduces the tools and applications of	
Engineering	BME 5	Biotechnology	biotechnology in the fields of medicine, agriculture,	
		Bioethics in the	Serves science and non-science majors interested in	
		21st Century:	bioethics. Guest speakers and instructors lead	
Biomolecular			discussions of major ethical questions having arisen	
Engineering	BME80G	and Society	from research in genetics, medicine, and industries	

		Science and	Considers the practical and epistemological	
Biomolecular		Justice:	necessity of collaborative research in the	
Engineering	BME 268A	Experiments in	development of new sciences and technologies that	
Linginicering	DITE ZOOA	Waste	Analyzes sustainability and its application in daily	
		Management and	life and on campus, involving collaboration between	
		Resource	students, faculty, staff, administration, and the	
College 8	CLEI 61		community. Guest lecturers, discussions, an optional	
College 0	CLLI 01	"Modern	Analyzes sustainability and its application in daily	
		Indigeneity	life and on campus, involving collaboration between	
		Synthesis:	students, faculty, staff, administration, and the	
College 8	CLEI 61	Bridging	community. Guest lecturers, discussions, an optional	
College 8	CLLI 01	bridging	Analyzes sustainability and its application in daily	
		"Inspiring	life and on campus, involving collaboration between	
		Sustainable	students, faculty, staff, administration, and the	
College 8	CLEI 61	Initiatives"	community. Guest lecturers, discussions, an optional	
College 6	CLEI 61	"Restoring our	Analyzes sustainability and its application in daily	
		Place:		
		Ecopsychology,	life and on campus, involving collaboration between	
Collogo 9	CLEI 61		students, faculty, staff, administration, and the	
College 8	CLEI 61	Stewardship and	community. Guest lecturers, discussions, an optional Analyzes sustainability and its application in daily	
			life and on campus, involving collaboration between	
		The Dayshalagy of	·	
Collogo 9	CLEI 61	, ,	students, faculty, staff, administration, and the	
College 8	CLEI 61	Permaculture 4. "The	community. Guest lecturers, discussions, an optional	
		Multiversity:	Analyzes sustainability and its application in daily	
		· /	life and on campus, involving collaboration between	
Callaga	CLET 61	Collaborating	students, faculty, staff, administration, and the	
College 8	CLEI 61	Local and Global Introduction to	community. Guest lecturers, discussions, an optional	
			Explores rhetorical principles and conventions of	
		University	university discourse, providing intensive practice in	
Callaga	CLET OOA	Discourse:	analytical writing, critical reading, and speaking.	
College 8	CLEI 80A	Environment and	Introduces students to environmental history,	
		Rhetoric and	Explores the intersections of investigation,	
		Inquiry:	interpretation, and persuasion and hones strategies	
Callaga	CLET OOD	Environment and	for writing and research. Introduces students to	
College 8	CLEI 80B	Society	environmental history, ethics, and policy options,	

		1	Tales abodents thus only a wide ways of anymas aboa	
			Takes students through a wide range of approaches	
			to environmental citizenship and provides	
	0. == 0.4.	The Environment	conceptual and practical tools to explore	
College 8	CLEI 81A	and Us	alternatives. Students also participate in a hands-on	
			Addresses major issues in physical and biological	
			environmental sciences and provides tools to	
			critically evaluate, debate, and make informed	
		Fundamentals of	choices regarding one's own impact on the	
		Environmental	environment. Topics include: climate change, water	
College 8	CLEI 81B	Science	resources, air pollution, evolution, ecology (from	
			Introduces key technological solutions to	
			environmental problems; discusses their underlying	
			principles; and examines their societal dimensions.	
		Designing a	Topics include: conventional and renewable energy;	
		Sustainable	emerging technologies for transportation, energy	
College 8	CLEI 81C	Future	efficiency clean water; planetary engineering; and	
			Students write about and discuss a variety of films	
			and articles about environment and society. Topics	
		Environment and	may include water, food systems, wilderness,	
College 8	CLEI 82	Society in Film	wildlife, pollution, global warming, nuclear energy,	
			One-credit internship in the College Eight Garden.	
			Offers students of College Eight an opportunity to	
		College Eight	become involved in an experimental learning project	
College 8	CLEI 90	Garden Internship	focusing on application of concepts of sustainable	
			Prepares students to facilitate an action research	
			team for "Sustainable Living" (courses 61/161)	
		Developing	during spring quarter. Workshops and training	
		Leadership to	selected to build the skills and preparation to	
		Facilitate	become successful facilitators. Topics include:	
		Environmental	facilitation skills; syllabus planning and curriculum	
College 8	CLEI 160	Education	building; experiential learning techniques;	
-			Analyzes sustainability and its application in daily	
			life and on campus, involving collaboration between	
			students, faculty, staff, administration, and the	
College 8	CLEI 161	Ecology of UCSC	community. Guest lecturers, discussions, an optional	

	1	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
		· · · · · · · · · · · · · · · · · · ·	
	-		
	1		
CLEI 161			
		1 ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	
		• • •	
CLEI 161			
	"Urban	Analyzes sustainability and its application in daily	
	Sustainability and	life and on campus, involving collaboration between	
	Community	students, faculty, staff, administration, and the	
CLEI 161	Development	community. Guest lecturers, discussions, an optional	
	The Making and	Explores how environmental policy is made and	
	Influencing of	influenced. Students learn about key contemporary	
	Environmental	environmental issues and the forces at play in	
CLTE 105	Policy	determining environmental policy outcomes.	
		Explores the need for social justice in the expanding	
	Student-Directed	green economy. Pulling from the environmental, civil	
	Seminar: Green	rights, women's rights, queer, and environmental	
CMMU 42J	Justice	justice movements, course explores paths of success	
		Explores the historical process of gentrification in	
	Student-	cities globally, concentrating on the urban	
	Directed Seminar:	experience of the United States. Considers the	
	Gentrification and	evolution of urban capitalist development and	
CMMU 42K	Its Discontents	neoliberal governance. Topics include displacement,	
		Examines the primary ways in which activists are	
		attempting to resist, provide alternatives to, and/or	
		transform aspects of the food system using social	
CMMU	Agriculture, Food,	and environmental justice frameworks to evaluate	
100T	and Social Justice	such activism. Topics explored include organic	
		Examines history, theory, and practice of community	
		gardening, emphasizing contemporary garden	
	Community	projects using the transformative power of direct	
	Gardens and	contact with nature to effect social change. Aims	
CMMU 162	Social Change	include understanding the nonprofit sector's	
	CMMU 42J CMMU 42K CMMU 100T	Thrive: Tools for Healthy Living Through Holistic Perspective "Urban Sustainability and Community Development The Making and Influencing of Environmental Policy Student-Directed Seminar: Green Justice Student-Directed Seminar: Gentrification and Its Discontents CMMU 42K Agriculture, Food, and Social Justice Community Community Community	and Gardening Practicum Practicum Thrive: Tools for Healthy Living Through Holistic CLEI 161 Perspective CLEI 161 Policy CLEI 161 CLEI 161 CLEI 161 Policy CLEI 161 Community CLEI 161 CLEI 161 Community CLEI 161 CLEI 161 Community Community CLEI 161 Community CLEI 161 Community Community CLEI 161 Community CLEI 161 Community Community Cudents Caulty, staff, administration, and the community, Suculty, staff, administration, and the community. Guest lecturers, discussions, an optional Analyzes sustainability and its application in daily life and on campus, involving collaboration, and the community. Guest lecturers, discussions, an optional Caulty, staff, administration, and the community. Guest lecturers, discussions, an optional Caul

		Flana alla interna ationa af altraial biological and	
		•	
	· ·	, , ,	
COWL 42A	& Consciousness		
		,	
		· ·	
		, , , , , , , , , , , , , , , , , , , ,	
COWL 168			
	The Environment	Examines the overt as well as the subtle cinematic	
	on Film: Rhetoric	elements that depict, ponder, and persuade	
CRWN 60	of Ecocriticism	concerning issues of the environment and the role of	
		An introduction to the physical environment of the	
		ocean. Origin and evolution of ocean basins; sea-	
		floor morphology; origin, distribution, historical	
		record, and economic significance of marine	
		sediments; ocean currents, waves, tides, and	
EART 1	Oceanography	changing sea level; beaches, shorelines, and coastal	
		Over the past 4.5 billion years, planet Earth has	
		evolved in exciting ways. Environments, climates,	
		and life forms have come and gone in fascinating	
		combinations. Course examines changing physical,	
	Earth History and	biological, and climatological conditions through	
EART 9	Global Change	geologic time, beginning with the evolution of the	
		Introduction to aspects of geology which affect and	
		are affected by humans. Addresses a broad range of	
		topics including resource management, geologic	
		hazards, air and water issues, population and land	
	Environmental	use, energy costs and effectiveness, and global	
EART 20	Geology	change, all from a unique geological/environmental	
		Laboratory sequence illustrating topics covered in	
	Environmental	course 20, with emphasis on rock and mineral	
	Geology	identification, geologic hazard assessment, geologic	
EART 20L	Laboratory	resource management, and land use planning. In-	
	COWL 168 CRWN 60 EART 1 EART 20	COWL 168 Social Change The Environment on Film: Rhetoric of Ecocriticism EART 1 Oceanography Earth History and Global Change Environmental Geology Environmental Geology	COWL 42A & Consciousness perspectives, basic and obscure neuroscience, mind- How do you change the world, working alone and in concert with others? To find out, students work in groups with specific community partners who, in turn, help place students in social-change The Environment on Film: Rhetoric elements that depict, ponder, and persuade concerning issues of the environment and the role of An introduction to the physical environment of the ocean. Origin and evolution of ocean basins; seafloor morphology; origin, distribution, historical record, and economic significance of marine sediments; ocean currents, waves, tides, and changing sea level; beaches, shorelines, and coastal Over the past 4.5 billion years, planet Earth has evolved in exciting ways. Environments, climates, and life forms have come and gone in fascinating combinations. Course examines changing physical, biological, and climatological conditions through geologic time, beginning with the evolution of the Introduction to aspects of geology which affect and are affected by humans. Addresses a broad range of topics including resource management, geologic hazards, air and water issues, population and land use, energy costs and effectiveness, and global change, all from a unique geological/environmental EART 20 Geology With emphasis on rock and mineral identification, geologic hazard assessment, geologic

			Addresses major issues in physical and biological	
			environmental sciences and provides tools to	
			critically evaluate, debate, and make informed	
		Fundamentals of	choices regarding one's own impact on the	
		Environmental	environment. Topics include: climate change, water	
Earth Science	EART 81-B	Science	resources, air pollution, evolution, ecology (from	
			An investigation of the evolution, morphology, and	
			processes in the coastal zone including the	
			terrestrial (marine terraces, dunes, estuaries, sea	
			cliffs) and marine (beaches, continental shelves, sea	
Earth Science	EART 105	Coastal Geology	level changes, shoreline erosion and protection,	
			Introduces processes involving water on and near	
			Earth's surface, including meteorology, water	
			properties, surface flows in steams and runoff, flood	
			analysis, ground water, water budgets, sediment	
			transport, erosion, and water quality. Problem set	
			and laboratory each week. Laboratory/field: 3	
			hours. Students are billed a materials fee.	
Earth Science	EART 116	Hydrology	Alternates annually with course 146. Enrollment	
			Introduction to the formation, composition, and	
			classification of soils; the chemical interaction of soil	
		Engineering	and groundwater; and basic soil mechanics: stress-	
		Geology for	strain behavior, effective stress concept,	
		Environmental	consolidation, soil testing methods. Applications to	
Earth Science	EART 142	Scientists	problems including slope stability, landslides,	
			Introduction to basic principles of geographic	
			information systems (GIS). Visualization of	
		Geographic	earthscapes with applications to problem-solving in	
		Information	the Earth sciences. Laboratory exercises in loading,	
		Systems with	manipulation, and interpretation of data sets. Field	
		Applications to	investigations of phenomena visualized in	
Earth Science	EART 188	Earth Sciences	laboratory, including geological description,	

	1		, i
		·	
		I	
		includes foundational lectures on both public policy	
		and climate science; additional guest lectures from	
	Climate Change	policy makers, politicians, and scientists. Students	
EART 191	Science and Policy	are introduced to and become familiar with	
		Focuses on atmospheric and oceanic processes that	
		are important within the Earth's climate system,	
	The Climate	especially those that operate on annual to centennial	
EART 254	System	time scales. Format includes lectures by the	
		Selected topics in groundwater, hydrothermal	
		systems, and related subjects. Discussion of	
		theoretical models, field and laboratory approaches,	
	Topics in	and recent research. Topics vary from year to year.	
EART 290H	Hydrogeology	Course designed for graduate students but available	
		Instructor and students lead discussions and make	
		presentations on current research, problems, and	
		publications in coastal processes. These topics	
	Topics in Coastal	include littoral drift, sediment transport and storage	
EART 290F	Processes	on the inner shelf, shoreline erosion/change and its	
		Covers selected issues concerning the international	
	Policy Issues in	economy. Topics include: U.S. competitiveness; U.S.	
	the International	trade policy; immigration; trade and the	
ECON 143	Economy	environment; developing countries; foreign	jpoole@ucsc.edu
		Economic analysis of environmental issues.	
		Environmental pollution and deterioration as social	
	Environmental	costs. Economic policy and institutions for	
ECON 170	Economics	environmental control. Influences of technology,	jhgonzal@ucsc.edu
		Applications of micro, welfare, and international	
		economic theory and methodology to the energy	
		field. Questions considered include optimal	
ECON 175	Energy Economics	allocation of natural resources; pricing and	jhgonzal@ucsc.edu
	EART 254 EART 290H EART 290F ECON 143	EART 191 Science and Policy The Climate System Topics in Hydrogeology Topics in Coastal Processes Policy Issues in the International ECON 143 Environmental ECON 170 Environmental Economics	Climate Change Science and Policy The Climate EART 254 System The Climate System Selected topics in groundwater, hydrothermal systems, and related subjects. Discussion of theoretical models, field and laboratory approaches, and recent research. Topics vary from year to year. Course designed for graduate students but available Instructor and students lead discussions and make presentations on current research, problems, and publications in coastal processes. These topics include littoral drift, sediment transport and storage on the inner shelf, shoreline erosion/change and its Covers selected issues concerning the international economy. Topics include: U.S. competitiveness; U.S. trade policy; immigration; trade and the environment; developing countries; foreign ECON 170 Economics Climate Change introduced to and become familiar with Focuses on atmospheric and oceanic processes that are improduced to and become familiar with Focuses on atmospheric and oceanic processes that are improduced to and become familiar with Focuses on atmospheric and oceanic processes that are improreases within the Earth's climate system, especially those that operate on acmental discussion of theoretae on proundwater, hydrothermal system, especially those that operate on acmental and laboratory approaches, and recent research. Policus singulations on current research. Discussion of theoretical models, field and laboratory approaches, and recent research. Topics vary from year to year. Course designed for graduate students but available Instructor and students lead discussions and make presentations on current research. Topics vary from year to year. Course designed for graduate students lead discussions on theoretical models, field and laboratory approaches, and recent research. Topics vary from year to year. Course designed for graduate students lead discussions

			Introduction to energy storage and conversion with	
			special emphasis on renewable sources.	
			Fundamental energy conversion limits based on	
			physics and existing material properties. Various	
			sources, such as solar, wind, hydropower,	
			geothermal, and fuel cells described. Cost-benefit	
Electrical		Renewable Energy	analysis of different alternative sources performed,	
Engineering	EE 80J	Sources	and key roadblocks for large-scale implementation	
			Topical introduction to principles and practices of	
			sustainability engineering and ecological design with	
			emphasis on implementation in society. Provides an	
		Sustainability	understanding of basic scientific, engineering, and	
Electrical		Engineering and	social principles in the design, deployment, and	
Engineering	EE 80S	Practice	operation of resource-based human systems, and	
			Introduces key technological solutions to	
			environmental problems; discusses their underlying	
			principles; and examines their societal dimensions.	
		Designing a	Topics include: conventional and renewable energy;	
Electrical		Sustainable	emerging technologies for transportation, energy	
Engineering	EE 81-C	Future	efficiency clean water; planetary engineering; and	
Linginicering		racare	This course is the first quarter of a year-long course,	
			the IDEASS Program (Impact Designs: Engineering	
			and Sustainability through Student Service),	
		Collaborative	focusing on planning, implementing, and evaluating	
Electrical	EE 122	Sustainability	interdisciplinary projects that address sustainability	
Engineering	(IDEASS)	Project Design	in the built environment in the Monterey Bay	
Linginieering	(IDLASS)	Froject Design	Introduces electrical energy generation, sensing,	
		Energy	and control, emphasizing the emerging smart grid.	
Electrical		Generation and	Topics include 3-phase AC power systems, voltage	
Engineering	EE 175	Control	and transient stability, fault analysis, grid	
Linginieering	LL 1/3	Energy	Computer analysis and simulation of energy	
		Generation and	generation, components, power-flow analysis,	
Flootrical			1	
Electrical	 1751	Control	systems, and control covering topics from course	
Engineering	EE 175L	Laboratory	195. Weekly computer simulations reinforce the	

	1			
			AC/DC electric-machine drives for speed/position	
		Energy	control. Integrated discussion of electric machines,	
Electrical		Conservation and	power electronics, and control systems. Computer	
Engineering	EE 176	Control	simulations. Applications in electric transportation,	
		Energy	Simulink-based simulations of electric	
Electrical		Conversion and	machines/drives in applications such as energy	
Engineering	EE 176L	Control	conservation and motion control in robotics and	
			Switch-mode power converter design and analysis.	
			Non-switching power supplies. Electronic power-	
Electrical			factor correction. Soft switching. Power-	
Engineering	EE 177	Power Electronics	semiconductor devices. Use in energy conservation,	
Electrical		Power Electronics	Buck, boost, buck-boost, flyback, and forward	
Engineering	EE 177L	Laboratory	converter design and control. Students are billed a	
			Provides a comprehensive overview of renewable	
			energy sources. Fundamental energy-conversion	
			limits based on physics and existing material	
			properties discussed. Various sources and devices,	
			such as solar, wind, hydropower, geothermal, and	
		Advanced	fuel cells described. Solar- and wind-site	
Electrical		Renewable Energy	assessment, as well as biofuel energy balance, also	
Engineering	EE 180J	Sources	discussed. Key scientific and economic roadblocks	
			Provides a fundamental understanding of renewable	
			energies in practice by experiencing them in a	
			functional context. Students visit and evaluate	
			renewable-energy facilities, such as wind power,	
			solar energy, hydrogen storage, biofuel production,	
		Renewable Energy	waste-water testing facilities, biomass, biodiesel,	
Electrical		Sources in	and biogas. This intensive one-month program	
Engineering	EE 181J	Practice	allows students to carry out applied research in a	
			Introduces students to the range of natural species	
Environmental			and communities occurring on the UCSC campus. All	
Studies	ENVS 15	UCSC	class time is spent outside, and each week a	

	ı			
			Provides an overview of the physical and chemical	
			environment of planet Earth. Fundamental chemistry	
			and physics is introduced in the process of learning	
			about Earth in a holistic way. The influence of	
		The Physical and	human societies on the global environment is one	
Environmental		Chemical	focus of discussion. Earth's many "spheres" are	
Studies	ENVS 23	Environment	explored first: the lithosphere; the atmosphere; the	
			Covers principles of ecology including limits to	
			Covers principles of ecology including limits to	
			species abundances, evolutionary ecology,	
Environmental	END/C 24	C F	population dynamics, community interactions and	
Studies	ENVS 24	General Ecology	patterns, and ecosystem patterns and dynamics.	
		[Facciona a sales!	Introduces basic concepts from policy studies and	
<u>_</u>		Environmental	economics that help explain environmental	
Environmental		Policy and	challenges. Provides an overview of how	
Studies	ENVS 25	Economics	government, non-governmental organizations, and	
		Introduction to	Introduction to freshwater resources from multiple	
Environmental		Fresh Water:	scientific and policy perspectives. After a review of	
Studies	ENVS 65	Processes and	basic concepts, water issues affecting cities, farms,	
			A broad overview of the impacts of human activities	
		The Ecological	on the global climate system. Topics include how	
Environmental		Forecast for	climate affects the distribution of ecosystems, the	
Studies	ENVS 80B	Global Warming	influence of global climate change on biodiversity,	
			Interdisciplinary two-credit seminar designed to	
			introduce students to concepts of community and	
Environmental		Community and	agroecology in the context of sustainability. Course	
Studies	ENVS 91F	Agroecology	can serve as a gateway to or as a continuing basis	
			Introduction to environmental issues in an	
			interdisciplinary matrix. Focuses on three issues at	
			the intersection of ecological questions and social	
			institutions: agroecology and sustainable	
			agriculture; population growth, economic growth,	
Environmental		Ecology and	and environmental degradation; and biodiversity	
Studies	ENVS 100	Society	conservation and land management. Reviews the	

			Required writing lab accompanying course 100.	
			Students are introduced to writing in different styles	
		Ecology and	and for different audiences typical of the ecosystem-	
Environmental		Society Writing	society interface. Course 100 writing assignments	
Studies	ENVS 100L	Laboratory	are developed, written, and revised in conjunction	
			A course in the process of field research and	
			monitoring, with emphasis on use of the scientific	
			method; experimental design, data handling,	
		Introduction to	statistical analysis and presentation; and basic field	
Environmental		Environmental	methodologies. Application of basic field skills,	
Studies	ENVS 104A	Field Methods	including habitat description; methods for sampling	
			Students directly observe elements of natural	
		Environmental	history and ecological process; design and	
Environmental		Field Methods	implement field studies based on lectures; deploy	
Studies	ENVS 104L	Laboratory	the methods discussed in lectures; and collect data	
			A 15-unit field course that uses California wild lands	
			to develop skills of natural history observation and	
			interpretation. Students gain the ability to identify	
Environmental	ENVS	Natural History	plants, animals, vegetation types, and landscapes,	
Studies	107A,B,C	Field Quarter	as well as address the complex issues of	
			Debate about environmental policy is often couched	
			in economic terms. Environmental issues have	
		Institutions, the	become questions of political economy, as they	
		Environment, and	influence international and domestic policy and	
Environmental		Economic	reflect on the functioning of the market system.	
Studies	ENVS 110	Systems	Examines the assumptions and implications of	
			Introduction to geographic information systems	
			(GIS) as the technology of processing spatial data,	
			including input, storage and retrieval; manipulation	
		GIS	and analysis; reporting and interpretation.	
Environmental	ENVS 115	Environmental	Emphasizes GIS as a decision support system for	
Studies	Α	Application	environmental and social problem solving, using	

	ī	T		
			Lectures and demonstrations are combined with field	
			applications to give students direct experience and	
			knowledge of sustainable agriculture and	
Environmental		Agroecology	horticulture practices and principles. UCSC Farm and	
Studies	ENVS 133	Practicum	Garden are the living laboratories for testing	
			An overview of all major federal environmental	
		National	policy domains. Analyzes political, social, economic,	
Environmental		Environmental	and other forces influencing federal (and some	
Studies	ENVS 140	Policy	state) public policy responses to land use, natural	
			Application of economic analysis to natural resource	
			policy and management. Topics include welfare	
Environmental		Ecological	economics, property rights and externalities, natural	
Studies	ENVS 141	Economics	resource valuation, exhaustible and renewable	
			Explores the social and environmental dimensions of	
			energy production and consumption. Provides an	
			overview of the tools to evaluate a new clean-energy	
Environmental		Energy Politics	economy and its wider political and economic	
Studies	ENVS 142	and Policy	implications. Students study assessment tools, such	
			Considers whether and how global poverty can be	
			alleviated without irreparably damaging the	
		Sustainable	environment. Examines interactions among	
		Development:	population, economic growth, poverty, global	
Environmental		Economy, Policy,	consumption ethos, property rights systems, global	
Studies	ENVS 143	and Environment	economy, state capacity, and environmental	
			Reviews research on race, class, and differential	
		Environmental	exposure to environmental hazards. Shows how	
Environmental		Inequality/Enviro	environmental inequality has, from the start, been	
Studies	ENVS 147	nmental Justice	an essential feature of modernity. Situates the	
			Surveys a wide range of topics in environmental law,	
			including population control, state and federal	
Environmental		Environmental	jurisdiction, land and resources control, public land	
Studies	ENVS 149	Law and Policy	management, pollution control, and private rights	

			Introduces and analyzes the history, design,	
			implementation, and effectiveness of key legal and	
			institutional frameworks that govern the use and	
			stewardship of coastal and marine areas and	
Environmental		Coastal and	resources. Primary focus is on the U.S., although	
Studies	ENVS 150	Marine Policy	attention is also devoted to international laws and	
			Introduction to California land use planning law and	
			practice, and the theory, practice, and public policy	
			aspects of environmental assessment, using the	
			California Environmental Quality Act (CEQA) as a	
			model. The National Environmental Policy Act	
			(NEPA) and other environmental and planning	
			legislation also considered. Covers elements of State	
Environmental		Environmental	law and regulations, environmental impact	
Studies	ENVS 151	Assessment	assessment requirements, and practical procedures	
			The object is to provide a rigorous grounding in the	
		Political Ecology	method of political ecology and to demonstrate how	
Environmental		and Social	this approach has been used in environmental	
Studies	ENVS 158	Change	analysis and problem solving by environmental	
			A multidisciplinary overview of restoring degraded	
			ecosystems. Among the topics addressed are	
Environmental		Restoration	linkages between ecological principles and	
Studies	ENVS 160	Ecology	restoration, planning and implementing restoration	
			Provides fundamentals of soils and plant nutrition.	
Environmental		Soil/Plant	The physical, biological, and chemical components	
Studies	ENVS 161A	Nutrition	of soils are investigated in relation to their ecological	
			Concepts, vocabulary, and skills necessary to the	
			analysis of freshwater issues are introduced from	
Environmental			hydrology, ecology, law, economics, engineering,	
Studies	ENVS 165	and Policy	and other disciplines. The skills are then applied to	
			Explores a range of approaches to examine	
		Agroecosystem	agroecosystem function, watershed management,	
		Analysis and	and concepts of sustainability. Uses a combination	
Environmental		Watershed	of lecture, demonstration, field work, and field trips	
Studies	ENVS 166	Management	to illustrate approaches to analysis of managed	

		l	Field and lecture course teaches the physical and	
Environmental		Freshwater	biological patterns and processes in freshwater and	
Studies	ENVS 167	Ecology	wetland systems, primarily focusing on Central	
Studies	LINVS 107	LCOIOGY	Provides basic skills to assess chemical, biological,	
			and physical characteristics of freshwater creeks,	
		Cua ala cua ta u a mad	rivers, and wetlands. These skills are needed in	
<u> </u>		Freshwater and	environmental consulting, municipal agencies	
Environmental	END (C. 1.67)	Wetland Ecology	engaging in water management or impacts on	
Studies	ENVS 167L	Lab	water, and regulatory agencies. Relies on methods	
		<u></u>	Studies biogeochemical cycles and related	
		Biogeochemistry	environmental issues such as global environmental	
Environmental		and the Global	change, eutrophication, ecosystem degradation, and	
Studies	ENVS 168	Environment	agricultural sustainability. Discusses transformation	
			Advanced topics in atmospheric science and	
Environmental		Climate Change	ecological theory. Topics include impacts on	
Studies	ENVS 169	Ecology	biodiversity, carbon sequestration, sustainable	
			Introduces students to some of the central issues in	
			world environmental history such as: human	
		An Introduction to	attitudes toward the natural environment; the role	
		World	of human societies, their institutions and	
Environmental		Environmental	technologies in changing the face of the earth; and	
Studies	ENVS 173	History	the historical impact of environmental and	
			Designed for environmental studies majors	
			interested in teaching environmental education in	
		Teaching	the K-12 school system. Students investigate	
Environmental		Environmental	incorporation of environmental education in the	
Studies	ENVS 177	Education	classroom; design an environmental education	
			A synthetic course that draws on the knowledge and	
		Capstone Course:	skills students bring from other courses in the	
Environmental		Environmental	major. Focuses on written and oral individual and	
Studies	ENVS 190	Problem Solving	group projects in which students must take the	
			Interdisciplinary two-credit seminar designed for	
			upper-division students who want to become	
		Community and	involved in PICA (Program in Community and	
Environmental		Agroecology	Agroecology) and to explore concepts of community	
Studies	ENVS 191F	J 5,	and agroecology as they relate to sustainability. Also	
	1=0 1011		and agree and the first to back and the first to be	

			Readings and discussions of primary literature on a	
			current environmental studies topic. Field or	
			literature-based research projects (individual or	
			group) writing multiple drafts resulting in a final	
			paper. Topics vary yearly; consult current course	
			listings. Enrollment by application with selection	
			based on appropriate background and academic	
			performance and by consent of instructor. Satisfies	
Environmental			senior comprehensive requirement. Enrollment	
Studies	ENVS 196	Senior Seminar	restricted to senior environmental studies majors;	
			What is the conservation value of seafood eco-	
			labels and similar tools that are increasingly	
			confronting even the most casual of fish eaters –	
			tools that range from fish counter labels, seafood	
			cards, and smartphone apps ranking the	
			sustainability of various fish items on offer all the	
			way to NGO-organized boycotts of retailers who	
			continue to sell notoriously unsustainable species	
			like Chilean seabass or orange roughy? And how	
			does the intent behind this increasingly broad and	
			varied array of non-state, market-based governance	
			initiatives in fisheries and aquaculture compare to	
			their actual on-the-ground performance in triggering	
		Senior Seminar-	improvements in the environmental performance of	
Environmental		Sustainable	fisheries and aquaculture operations? The course	
Studies	ENVS 196	Fisheries	challenges students to tackle these cutting edge	
			This course explores how economic and	
			environmental regulatory policies affect renewable	
			energy project development. The focus will be on	
			the regulatory setting in California, but the course	
			also compares the California system to other states,	
			the federal system, and some other countries	
Environmental		Senior Seminar-	(especially members of the European Union). Each	
Studies	ENVS 196	CA Energy Policy	student must write a 15-20 page final term paper	

			This course on animal ecology and conservation	
			seeks to understand why animals behave the way	
			they do and how this impacts their conservation.	
			We will focus on the role of natural selection in	
			shaping animal behavior, and the interaction	
		Senior Seminar-	between animal behavior and the environment.	
Environmental		Wildlife Behavior	Course goals are to help you develop the tools to	
Studies	ENVS 196	and Conservation	think intelligently about issues influencing the	
		Senior Seminar:	Students will work on ongoing research projects on	
		restoration	coastal prairie and scrub habitat restoration at	
Environmental		research and	Younger Lagoon Reserve. They will write papers	
Studies	ENVS 196	practicum	that either analyze data from field research or	
			This Senior Seminar will focus on agroecology with	
			the goals of studying different aspects of organic	
			crop production using the CASFS farm as a living	
			laboratory. This will be an intensive course that will	
			involve reading relevant academic and practical	
			literature, investigating research methods, and	
			developing and implementing study modules.	
		Senior Seminar:	Students will work in groups of two and choose a	
Environmental		Agroecology	topic, such as crop growth and weed management,	
Studies	ENVS 196	Intensive	fertility and soil management, arthropod pest	
			In this course we analyze how the American political	
			process is / is not responding meaningfully to	
			scientists' warnings about the threat of climate	
		Senior Seminar:	change. Issues to be addressed: how the science	
		Science	has been communicated to the public, by both	
Environmental		communication	scientists, environmental activists and other	
Studies	ENVS 196	and Policy	institutional actors who understand the urgency to	

			Students learn basic techniques in studying plant	
			diseases through a complete research project on an	
			important tree disease on the UCSC Campus Natural	
			Reserve. As a group, students conduct basic	
			observational studies on the disease in the field,	
			learning survey methodology. All students complete	
			Koch's proof of pathogenicity with the pathogen.	
			Students then gather and synthesize the published	
			literature on the disease, collectively learning what	
			is known, and what still needs to be discovered.	
		Senior Seminar:	Working individually or in small groups, they design,	
		Plant Diseases	carry out, analyze, and present a focused research	
Environmental		Research	project on some unknown aspect of the disease.	
Studies	ENVS 196	Practicum	Each student individually writes a detailed synthesis	
			This course involves supervised individual and group	
			interdisciplinary research on ecological and social	
		Senior Seminar-	justice dimensions of conservation, food production,	
		Ecology and	other natural resource use, and community.	
		Social Justice	Students will undertake individual or small group	
Environmental		Interdisciplinary	projects based on field observation, public	
Studies	ENVS 196	Research	documents, and library materials to consider what	
			Two-quarter course introduces keywords and	
			concepts that underlie interdisciplinary work in	
			environmental studies through lectures, directed	
			readings, and discussion. Modules include resonant	
			concepts in ecology and society; ecology and	
Environmental	ENVS	Keywords and	evolution; environment and development; the global	
Studies	201A,B	Concepts	environment and society; agroecology and	
		Interdisciplinary	Provides students with opportunities to learn	
		Research Design	research protocols, practices, and methods used in	
Environmental		in Environmental	environmental studies. Combination of lectures,	
Studies	ENVS 201N	Studies	reading, practical exercises, and short projects used	

	I		
		· · · · · · · · · · · · · · · · · · ·	
		[· · · · · · · · · · · · · · · · · · ·	
		, , , , , , , , , , , , , , , , , , ,	
		· · · · · · · · · · · · · · · · · · ·	
ENVS 215A	Applications		
		1	
		Remote Sensing that demonstrate the development	
	Exercises in	of digital geographic data. Students gain hands-on	
	Geographic	experience with developing datasets, using imagery	
	Information	to create GIS layers, performing spatial analysis,	
ENVS 215L	Systems	and utilizing GPS technology. Emphasis placed on	
		The principles of conservation biology, including a	
		review of the core disciplines of demography,	
		population genetics, island biogeography, and	
	Conservation	community ecology and discussion of area and edge	
ENVS 220	Biology	effects, population viability, and ecosystem issues	
		Introduction to political and economic approaches to	
		policy analysis, with particular reference to natural	
		resource scarcity, property rights, and	
	Public Policy and	environmental conservation. Case studies apply	
ENVS 240	Conservation	economic and policy process concepts to the	
		Research seminars presented weekly throughout the	
		year by environmental studies and affiliated faculty,	
	Interdisciplinary	by visiting scholars, and by graduate students.	
ENVS 290	Research Seminar	Students discuss the content and methodology of	
		Graduate student presentations of doctoral research	
		proposals, dissertation work-in-progress, grant	
	Graduate	applications, and conference papers. This weekly	
ENVS 290L	Research Seminar	1 ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	
	Advanced		
ENVS 291	Readings in	Advanced Readings in Environmental Studies	
	Topics in	<u>-</u>	
ENVS 292	Research in	Topics in Research in Environmental Studies	
	ENVS 215L ENVS 220 ENVS 240 ENVS 290 ENVS 290L ENVS 291	Geographic Information Systems Conservation Biology Public Policy and Conservation ENVS 240 Public Policy and Conservation Interdisciplinary Research Seminar Graduate Research Seminar Advanced Readings in Topics in	Information Systems and Environmental Emphasizes GIS as a decision support system for environmental and social problem solving, using Exercises in Geographic Information Systems and Remote Sensing that demonstrate the development of digital geographic data. Students gain hands-on experience with developing datasets, using imagery Information Environmental and social problem solving, using Exercises in Geographic Information Systems and Remote Sensing that demonstrate the development of digital geographic data. Students gain hands-on experience with developing datasets, using imagery to create GIS layers, performing spatial analysis, and utilizing GPS technology. Emphasis placed on The principles of conservation biology, including a review of the core disciplines of demography, population genetics, island biogeography, and community ecology and discussion of area and edge effects, population viability, and ecosystem issues Introduction to political and economic approaches to policy analysis, with particular reference to natural resource scarcity, property rights, and environmental conservation. Case studies apply economic and policy process concepts to the Research seminars presented weekly throughout the year by environmental studies and affiliated faculty, by visiting scholars, and by graduate students. Students discuss the content and methodology of Graduate student presentations of doctoral research proposals, dissertation work-in-progress, grant applications, and conference papers. This weekly laboratory meeting seeks to develop professional Advanced Readings in Advanced Readings in Environmental Studies

			Examines, and critically analyzes, select post-World	
			War II movements for social justice in the United	
			States from feminist perspectives. Considers how	
			those movements and their participants responded	
			to issues of race, class, gender, and sexuality. A	
Feminist		Feminism and	feminist, transnational, analytic framework is also	
Studies	FMST 20	Social Justice	developed to consider how those movements may	
			Explores questions of science and justice. Examines	
			the nature of scientific practice, the culture of	
			science, and the possibilities for the responsible	
Feminist		Feminism and	practice of science. Rather than focusing on feminist	
Studies	FMST 30	Science	critiques of science, the course examines how	
			Examines the relationship between sexuality and the	
			contemporary term "globalization" as a dense	
			entanglement of processes that emerges from a	
			history of U.S. empire. Sexuality cannot be	
Feminist		Sexuality and	separated from power struggles over the	
Studies	FMST 40	Globalization	classification of bodies, territories, and questions of	
			A study of conceptual and formal issues that have	
			informed the production of temporary, site-specific	
History, Art		Environments,	art works since 1960. Works that seek to transform	
and Visual		Installations and	the role of the audience, to escape or remake	
Culture	HAVC 141I	Sites	museum and gallery spaces, to introduce	
			Introduces the most effective methods for social	
			change. Examines social entrepreneurs, innovators,	
		Transformative	and visionaries. Reviews traditional methods of	
Kresge	KRSG 62	Action	activism and new theories of nonviolent social	
			Offers hands-on gardening skills within a student-	
		Kresge Garden	run space. Focuses on developing a strong	
Kresge	KRSG 63	Cooperative	cooperative garden on campus, with special	
			Develops life skills that support you and help you	
			support others. Implement effective methods for	
		Tools for World	personal productivity (managing your to-dos,	
Kresge	KRSG 64	Changers	calendar, and inbox), interpersonal communication,	

	T.		_	
			Explores core themes of power and representation	
		Power and	through the mediums of food, nature awareness,	
		Representation:	community, personal empowerment and sustainable	
		Food and	living. Students will develop meaningful final	
Kresge	KRSG 65A	Community	projects in collaboration with Kresge Food Co-op,	
			Examines the principles and processes of restorative	
			justice juxtaposed to current practices in the judicial	
		Transformative	and educational systems of contemporary society.	
Kresge	KRSG 67	Justice Seminar	Students study leading restorative justice practices	
			Based on Nonviolent Communication (NVC), this	
			experiential course offers skills in intra- and inter-	
			personal conflict transformation by aligning with	
			core values; understanding what motivates self and	
			others; cultivating compassion, even under difficult	
		Transformative	circumstances; and bringing greater peace into our	
Kresge	KRSG 68	Communication	world. Enrollment restricted to frosh, sophomores,	
			Explores the rich history and fundamental legal	
		California Water	concepts surrounding water in California. Students	
Legal Studies	LGST 132	Law and Policy	identify, evaluate, and debate some critical water	
			Surveys a wide range of topics in environmental law,	
			including population control, state and federal	
		Environmental	jurisdiction, land and resources control, public land	
Legal Studies	LGST 149	Law and Policy	management, pollution control, and private rights	
			From petroleum extraction to hydroelectric power to	
			ethanol production, Latin America is an important	
Latino and		Energy, Society,	provider of the world's energy. Course examines the	
Latin American		and Environment	implications of this process for economic growth,	
Studies	LALS 80P	in Latin America	climate change, environmental degradation, social	
			Examines the circuits of media, commodities, and	
Latino and		Consumer	migration connecting the Americas in an age of	
Latin American		Cultures Between	globalization. Issues of states, transnational	
Studies	LALS 152	the Americas	markets, social relations, and cultural	

			Introduces students to participatory-action research,	
			which both creates positive social-environmental	
			change and contributes to scientific knowledge.	
Latino and			Through collaboration with environmental justice	
Latin American		Environmental	organizations, students develop research skills, hone	
Studies	LALS 164	Justice	critical reflection abilities, and understand the	
			An introduction to the sources, cycling, and impacts	
Microbiology			of toxicants in aquatic systems, including acid rain,	
and			ground water, fresh water rivers and lakes,	
Environmental		Aquatic	estuaries, and the ocean. Emphasis is on the	
Toxicology	METX 80E	Toxicology	properties of toxic chemicals that influence their	flegal@ucsc.edu
			Presents in-depth important principles of	
			environmental toxicology related to the introduction,	
Microbiology			transport, and fate of toxicants in aquatic and	
and			terrestrial environments, including environmental	
Environmental		Sources and Fates	chemistry and biogeochemical cycles as well as	
Toxicology	METX 101	of Pollutants	exposure to pathways and uptake by organisms.	flegal@ucsc.edu
Microbiology			Cell and molecular biology of bacteria and their	
and	METX 119	Microbiology	viruses, including applications in medicine, public	
Microbiology		General	An introduction to the principles and practices of	
and	METX 119L	Microbiology Lab	laboratory microbiology, with a substantial	
			Presents in-depth important principles of	
			environmental toxicology related to the introduction,	
			transport, and fate of toxicants in aquatic and	
Microbiology			terrestrial environments including environmental	
and			chemistry and biogeochemical cycles as well as	
Environmental		Sources and	exposure pathways and uptake by organisms.	
Toxicology	METX 201	Fates of Pollutants	Additional emphasis will be placed on the	
			Engages the themes of Oakes College (respect for	
		The Politics of	diversity and social justice) and the interests of	
		Food: Labor and	UCSC's Center for Agroecology and Sustainable Food	mbaker@ucsc.edu,
Oakes College	OAKS 67	Social Justice	Systems. Topics include the racial politics of food,	ryking@ucsc.edu

	I			
			An interdisciplinary introduction to oceanography	
			focusing on biological, chemical, geological, and	
			physical processes. Covers topics such as origins	
			and structure of planet Earth and its oceans, co-	
			evolution of Earth and life, plate tectonics, liquid	
			water and the hydrologic and hydrothermal cycles,	
Ocean Sciences	OCEA 1	The Oceans	salinity and elemental cycles, ocean circulation,	mdmccar@ucsc.edu
			Interdisciplinary scientific perspective on Earth	
			system, focusing on human impacts on global	
		Our Changing	environment. Introduces concepts of Earth system	
Ocean Sciences	OCEA 80B	Planet	science and explores topics such as global warming,	
			An introduction to Earth's environment, particularly	
		Oceans and	its oceanic and climatic components. Emphasizes	
		Climate: Past,	interactions between chemical, physical, biological,	
		Present, and	and geological processes, and fundamentals of past,	
Ocean Sciences	OCEA 102	Future	present, and future global environmental change.	jzachos@ucsc.edu
			Biological description of sea, with emphasis on	
			processes and patterns. Topics include microbial	
			dynamics, phytoplankton and zooplankton	
			production, and ecology of marine food webs.	
		Biological	Emphasis placed on understanding how physical,	
Ocean Sciences	OCEA 130	Oceanography	chemical, and geological environment shapes	kudela@ucsc.edu
			Introduction to the dynamics of the Earth climate	
			system. Topics: climate system components; the	
			global energy balance; radiative transfer; the	
Ocean Sciences	OCEA 211	Climate Dynamics	hydrological cycle; general circulations of the	
			Biological description of sea, with emphasis on	
			processes and patterns. Topics include microbial	
			dynamics, phytoplankton and zooplankton	
			production, and ecology of marine food webs.	
			Emphasis placed on understanding how physical,	
		Biological	chemical, and geological environment shapes	
Ocean Sciences	OCEA 230	Oceanography	biology and ecology of oceans, including such topics	

		•	
		· ·	
	D . CU: .	·	
		,	
OCEA 285	Change		
		1 .	
		1	
PHYS 156	Physics		
		, , ,	
		,	
		, , ,	
POLI 70	Global Politics		
		1'	
		1	
		participation of interest groups in the electoral	
POLI 125	American Politics	process and in Congress, the executive branch, and	ctucey@ucsc.edu
		Explores the rich history and fundamental legal	
	California Water	concepts surrounding water in California. Students	
POLI 132	Law and Policy	identify, evaluate, and debate some critical water	rlangrid@ucsc.edu
		Focus on global environmental "problematique" and	
	Global	how it is being played out in a variety of political	
	Environmental	economic, and social arenas. Includes technical	
POLI 174	Politics	overview of environmental movements, green	
		Examines a range of ecological philosophies and	
	Political Ecology	their implications for politics, economics, social	
	and Ecological	action, and the Earth. Themes addressed in relation	
POLI 190I	Politics	to political ecology include: liberalism, historical	
	Community	ntroduction to community psychology, a discipline	
	Psychology:	that blends social psychology, sociology, and	
	Transforming	anthropology. Class topics include levels of analysis,	
		ecologies, prevention, intervention, feminism,	
PSYCH	Psychology of	Covers social-psychological scholarship relevant to	
159X	Social Activism	social justice activism that receives limited academic	
	POLI 132 POLI 174 POLI 190I PSYCH 149 PSYCH	Applications of Solid State Physics POLI 70 Global Politics Political Organizations in American Politics California Water Law and Policy Global Environmental Politics Political Ecology and Ecological Politics Politics Community Psychology: Transforming Communities PSYCH 149 Communities	OCEA 285 Change and from predictions of the future. Recommended Emphasizes the application of condensed matter physics to a variety of situations. Examples chosen from subfields such as semiconductor physics, lasers, superconductivity, low temperature physics, lasers, superconduction, ethorical attempts for superscription, ethoric superscriptio

A healthy society requires a stable and sustainable relationship between society and nature. Covering	ouis@ucsc.edu
Sustainable Design as Social Sociology SOCY 115 Sociology Sociolog	ouis@ucsc.edu
Sustainable collaborative "open" processes. Includes computer-assisted, active-learning team workshop exercises and laboratories in both face-to-face and virtual emdup. A healthy society requires a stable and sustainable relationship between society and nature. Covering	ouis@ucsc.edu
Design as Social assisted, active-learning team workshop exercises and laboratories in both face-to-face and virtual emdup. A healthy society requires a stable and sustainable relationship between society and nature. Covering	ouis@ucsc.edu
Sociology SOCY 115 Change and laboratories in both face-to-face and virtual e-emdup A healthy society requires a stable and sustainable relationship between society and nature. Covering	uis@ucsc.edu
A healthy society requires a stable and sustainable relationship between society and nature. Covering	uis@ucsc.edu
relationship between society and nature. Covering	
l ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	
Society and past, present, and future, the course covers	
Sociology SOCY 125 Nature environmental history of the U.S., the variety and jmetcal	ılf@ucsc.edu
Following food from mouth to dirt, explores the	
politics, economy, and culture of eating, feeding,	
buying, selling, and growing food. Topics cover both	
Sociology SOCY 130 Sociology of Food the political economy of the food system as well as	
Reviews social and cultural perspectives on science	
and technology, including functionalist, Marxist,	
Kuhnian, social constructionist, ethnographic,	
Sociology of interactionist, anthropological, historical, feminist,	
Science and and cultural studies perspectives. Topics include	
Sociology SOCY 132 Technology sociology of knowledge, science as a social problem,	
Examines contemporary debates about development	
in the Third World: alternative meanings of	
Development and development, recent work on the impact of colonial	
Underdevelopmen rule, how some economies have industrialized, ideas	
Sociology SOCY 167 t about agrarian change, and recent research on akalinic	c@ucsc.edu
Historical and contemporary examination of urban	
life including community, race, geography, urban	
and suburban cultures and lifestyles, stratification,	
Sociology SOCY 177 Urban Sociology housing, crime, economic and environmental issues, sbearns	ıs@ucsc.edu
Eco-Metropolis: Explores the intersection of cities and the	
Research Seminar environment through the emerging field of urban	
in Urban and environmental studies. Focuses on varied and often	
Enviromental contested efforts at "urban sustainability" in recent	
Sociology SOCY 177E Studies history. Draws on literatures in environmental miriam	n@ucsc.edu

Sociology		Nature, Poverty, and Progress: Dilemmas of Development and	Concerns about environmental change, including global warming, threats to the ozone layer, and industrial pollution, raise questions about Third World development. Simple views of the relation between society and nature, such as blaming population growth, industrialization, or poor people,	bencrow@ucsc.edu
Sociology	30C1 179	Environment	population growth, industrialization, or poor people,	Denciow@ucsc.edu