UC Irvine

UCI Sustainability Course Inventory 2018

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Undergraduate Courses

School	Title Advanced Topics in	Sustainability Course	Course That Includes Sustainability	Description [Literature-based, interactive discussions focused on review of seminal historic and recent immunology literature.
Bio Sci	Immunology			Student responsibilities include reading, critical evaluation, and discussion of manuscripts.
				Explores why animals behave the way they do from evolutionary/mechanistic perspectives. Considers selective
			Х	pressures and evolutionary constraints that shape animal behavior and the underlying neural and hormonal
Bio Sci	Animal Behavior			mechanisms by using examples such as why dogs bark, why some birds migrate.
Bio Sci	Biology and Chemistry of Food and Cooking		Х	The kitchen is used as a laboratory to introduce fundamental principles of biology, chemistry, and physics. A molecular/cellular analysis of cooking, including concepts such as protein structure, browning reactions, colloids emulsions, carbohydrate metabolism, and development of flavor/texture through biochemical transformations.
Bio Sci	Biology of Birds		Х	A thorough introduction to the biology of birds, covering topics ranging from avian anatomy and physiology to behavior, natural history, ecology, genetics, evolution, systematics, and conservation. Examples from both local and global avifauna.
Bio Sci	Biology of Integrative Medecine		×	Presentation of biological principles and the latest clinical and basic research on complementary and alternative therapies (e.g., mind-body medicine, energy medicine, herbal medicine, acupuncture, manipulative therapies) and their integration with Western medicine. Lectures supplemented by demonstrations and hands-on learning sessions.
Bio Sci	Biology of Oriental Medicine		Х	With lectures, demonstrations, and hands-on learning, the theory and practice of herbal medicine, acupuncture, qigong, and manipulative therapies are explained in Western biomedical terms. The latest basic and clinical research advances in each area are also described.
Bio Sci	Biotechnological Applications of Energy and Environmental Research		Х	Covers microbiological and biochemical background related to current biotechnological applications, case studies of biotech-companies, and basic information related to patents and start-up companies. Topics include biofuel, bioremediation, agricultural, and environmental applications. Genetic and ecological issues in conservation biology, including effects of human population growth, the value
Bio Sci	Conservation Biology	Х		of biodiversity, conservation genetics, demography, metapopulation dynamics, community and ecosystem processes, species invasions, global climate change, and reserve design and management.
Bio Sci	Developmental Biology			Cellular and molecular analysis of how a fertilized egg develops into an organism consisting of complex structures such as the eye, arms, and brain. Emphasis is on the key concepts of developmental processes underlying pattern formation, growth, and regeneration.
Bio Sci	Discussion and Literature Research in AIDS			Students carry out two activities: (1) leading discussions about HIV/AIDS (predominantly regarding sociological and personal reactions) among students taking the AIDS Fundamentals course and (2) literature research about biomedical aspects of AIDS.
Bio Sci	Diseases of the Twenty-First Century		Х	Why do we get sick? An introduction to the biological basis of human disease, including diseases of the cardiovascular, respiratory, nervous, and reproductive systems. Case studies present diagnosis, treatment, and prevention protocols. Inheritable and infectious diseases also discussed.
Bio Sci	Ecology and Diversity of Insects		Х	insectsure presenting two-thirds of all speciesuplay fundamental roles in human health, agriculture, and natural ecosystems. Topics include insect morphology, development, physiology, taxonomy, ecology, and insects in human affairs. Lecture includes interactive demonstrations and an optional weekend trip.
Bio Sci	Environmental Ethics		Х	History of evolution of environmental etnics in America. Management problems in national parks, wilderness areas, wild and scenic rivers, national forests. Contemporary and historical aspects/contributors to the field. Mitigation, endangered species, habitat restoration, biodiversity, and environmental activism. Field trips required.
Bio Sci	Evolution		Х	An integrative treatment of evolutionary biology that covers evolutionary processes, basic research methods, and the history of life.

School	Title	Sustainability Course	Course That Includes Sustainability	Description
	11111	553,155		Explores basic topics in ecology and evolutionary biology and applications to agriculture, conservation,
	Evolution and the Environment		X	environmental issues, and public health. Format involves lab activities and discussion of scientific journal articles,
Bio Sci	Laboratory			with focus on learning to evaluate scientific evidence.
	-			Students perform experiments which illustrate important concepts in evolutionary biology such as natural
1			X	selection, random genetic drift, inbreeding, age-specific selection, sexual selection, and phylogenetic
Bio Sci	Evolution Laboratory			reconstruction.
				Introductory general microbiology designed for preprofessional biology majors. Includes microscopy,
1			X	cultivation of bacteria, morphological and biochemical characterization of bacteria, microbial metabolism,
	Experimental Microbiology		^	growth and genetics, microorganisms and human disease, and interactions of microorganisms with the
Bio Sci	Laboratory			environment.
				Conducting group and independent studies in Southern California ecosystems, this course covers the
			X	fundamentals of experimental design, statistical analysis, communicating scientific findings (orally, visually, in
Bio Sci	Field Biology			writing), and other skills necessary for the scientific investigation of biological processes in the field.
				Analytical techniques for common water-quality variables of lakes, streams, rivers. Benthic fauna, vertebrates and
			X	invertebrates, algae, and aquatic plants. Emphasis on field methods with an experimental approach; laboratory
Bio Sci	Field Freshwater Ecology			exercises. Field trips to marshes, vernal pools, rivers and streams.
	From Organisms to		X	Patterns of diversity, ecology, and evolutionary biology. Emphasis is on the Tree of Life and how its members are
Bio Sci	Ecosystems			distributed and interact.
		X		Field trips and lectures that address ways in which humans are altering the global environment, with
Bio Sci	Global Change Biology			consequences for the ecology of animals, plants, and microbes. Introduces students to local habitats and organisms through required field trips and applies ecological and
D: 6 :			X	
Bio Sci	Habitats and Organisms			evolutionary principles from BIO SCI E106. Students also explore related literature. Scientific principles of horticulture at the UCI Arboretum. Taxonomy, plant life history strategies; experiments
			V	with seed dormancy; morphological adaptations for specialized sexual and clonal reproduction; basics of plant
D: - C-:	Horticulture Science		X	
Bio Sci	Horticulture Science			propagation and ecological restoration. Provides an in-depth look at cutting-edge topics in physiology and epidemiology as they relate to global issues
1			V	of ethics, anthropology, and socioeconomics, providing the student with an understanding of human health
Bio Sci	Human Riology I		Х	beyond basic biological function.
DIO 3CI	Human Biology I			Discusses how the dynamical interactions between pathogens and the immune system can give rise to a variety
			×	of outcomes which include clearance of infection, persistent infection, escape from immune responses, and
Bio Sci	Infectious Disease Dynamics	1	^	pathology.
Bio Sci	Introduction to Ecology	X		Principles of ecology; application to populations, communities, ecosystems, and humans.
510 30	Introduction to Ecology	^		Physiology of insects. Insect respiration, digestion, excretion, and neurobiology, including sensory systems and
Bio Sci	Physiology	1	X	leffectors.
510 301	Triysiology			Designed to introduce nonmajors to the basic concepts of modern biology. Discussion of evolutionary biology,
Bio Sci	Life Sciences		X	ecology, molecular biology, and genetics.
	Limnology and Freshwater			Biology of freshwater environments: lakes, ponds, rivers, their biota, and the factors which influence distribution
Bio Sci	Biology		X	of organisms.
				Examines the biotic and abiotic factors influencing the physiology, distribution, abundances, interactions, and
		1	X	evolution of marine organisms and the roles of those organisms in mediating ecosystem services and functions.
Bio Sci	Marine Biology	1	,	A field trip is required.
		1		Biodiversity, history of human impacts, and conservation efforts are examined in the five Mediterranean-type
	Mediterranean Ecosystems:	X		ecosystems. Remaining natural habitat, approaches to ecological habitat restoration, control of exotic species,
Bio Sci	Biodiversity and Conservation			and predicted consequences of global climate change are described. Field trip required.

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Bio Sci	Nutrition Science		Х	An introduction to nutrition science, integrating concepts from biology, biochemistry, microbiology, physiology, and psychology to explain the interaction between nutrients and the human body. Biological basis of nutrient standards is analyzed. Effects of nutrition, behavior, exercises on health/disease.
Bio Sci	Physiology in Extreme Environments		Х	An in-depth look at the physiological mechanisms that allow animals, including humans, to be physically active and survive in extreme environments. Physiological responses to high altitude, diving, microgravity, deserts, and extreme cold are examined.
Bio Sci	Plant Diversity in a Changing World		Х	Investigation of planet diversity in California and throughout the world, including basic systematic concepts, an introduction to major groups of flowering plants, and the effects of global biological change on plant diversity.
Bio Sci	Population and Community Ecology		Х	Population structure, function, development, and evolution. Topics include population structure, population growth and regulation, metapopulations, predation, competition, species diversity, ecosystem function, macroecology, and island biogeography. Offered every other Winter.
Bio Sci	Population Dynamics in Ecology, Epidemiology, and Medicine		Х	Explore the dynamics of populations on an ecological, epidemiological, and medical level. Considers the dynamics of competition, predation, and parasitism; the spread and control of infectious diseases; and the in vivo dynamics of viral infections and the immune system.
Bio Sci	Processes in Ecology and Evolution		Х	An in-depth study of the mechanisms that drive evolution and ecology including: natural selection, mutation, genetic drift, speciation, extinction, life history patterns, population dynamics, ecosystem and community structure, predator-prey and host pathogen interactions, and social behavior.
Bio Sci	Restoration Ecology	×		Theoretical and practical aspects of habitat restoration and mitigation. Design, implementation, and monitoring of restoration projects in local habitats. Collection of seed and cuttings, planting and maintenance presented. Control of exotics in natural areas discussed. Environmental ethics of restoration emphasized.
Bio Sci	Solutions in Science		Х	Students will be introduced to approaches that can be used to solve scientific problems. These methods can be utilized in introductory to advanced classes and will allow students to become independent thinkers.
Bio Sci	Sustainable Landscaping: Design and Practices	X		Through lectures and hands-on work, students learn how to design habitats around dwellings, within cities, and in rural environments. These include traditional/sustainable landscaping, restoration, stormwater/wastewater treatment, xeriscaping, and low impact development design. Sustainable landscape plant materials emphasized.
Bio Sci	The Idiom and Practice of Science		Х	treatment, xeriscaping, and low impact development design. Sustainable landscape plant materials emphasized. The importance of biological sciences in our world is discussed. Topics may include brain and behavior, health and disease, genetics and society, and conservation biology. Primary goal is to encourage students to understand better the world in which they live.
Bio Sci	Topics in Ecology and Evolutionary Biology		Х	Studies in selected areas of ecology and evolutionary biology. Population growth combines with tropical resource consumption by industrialized nations to cause high rates of
Bio Sci	Tropical Biology: Race to Save the Tropics	Х		deforestation, pollution, habitat fragmentation, and extinction of species. Discusses tropical biomes, their population, community, ecosystem processes, and possible means of conservation of biodiversity.
	Total Biological Sciences	7	33	
Business	Global Marketing		Х	Students are exposed to the challenges and opportunities facing marketers in the international marketplace. Special attention is given to the management of cultural differences in product development, distribution systems, pricing, and promotion. Case analyses, free-form discussion, and written assignments designed to develop critical thinking skills, as well
Business	Leadership		Х	Case analyses, free-form discussion, and written assignments designed to develop critical thinking skills, as well as knowledge of approaches to differing leadership challenges. Experiential exercises encourage students to develop their ability to innovate, foster collaboration, manage conflict, and value diversity.

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			•	Equips students with working knowledge of several major subject areas within the context of business and
	Management of Contemporary		X	society studies. Topics include: role of management in organizations, corporate social responsibility and
Business	Organizations			responsiveness, ethics and values in business, government regulation, and international business.
				Addresses management of the entire business. Role of the general manager in organizations, industry analysis,
ъ :	C M		Х	core competencies, growth through vertical integration, innovation, acquisition and diversification,
Business	Strategic Management			globalization, strategy implementation, and the ethical and moral responsibility of a manager. Flows of materials and information among all of the firms that contribute to a product or service. Forecasting,
			X	demand management, logistical networks, inventory management, supplier contracting, sourcing, information
Business	Supply Chain Management		^	technology, flexibility, globalization, and performance management.
Dusiness	Supply Chair Management			Providers, suppliers, payers, consumers, and the unique market dynamics among these players. Structure,
			Х	organization, and financing of health care. The health care industry's relationship to the overall economy will be
Business	U.S. Healthcare Systems			explored.
	Total Business	0	6	
F	Child Development in		Х	Explores the pathways of normally developing children's growth and change over time. In particular, focuses on
Education	Education			how cognitive and social development impact and are driven by educational contexts. Focuses on equity and multicultural education research, special education, and research-based instructional and
			V	assessment strategies to assist students in designing, teaching, and assessing lessons that meet the needs of all
Education	Classroom Interactions II		Х	secondary mathematics and science students.
Laucation	Classicolli litteractions ii			In this Cal Teach capstone course, students design lesson plans and complex instructional units, using
				approaches such as mathematics and science integration, problem-based instruction, project-based learning,
			X	technology, representations, scientific and mathematical analysis/modeling, authentic assessment,
Education	Complex Pedagogical Design			contextualization, and designing equitable learning environments.
				Exploration of learning and development through a cultural lens, drawing from a range of research traditions
	Education, Learning, and		X	and disciplines to broaden understandings of theories that inform teaching and learning in formal and informal
Education	Culture			settings.
				Ethics in education and how ethicists frame moral problems. Presents major ethical themes that affect
			X	education. Analysis of models for dealing with ethical goals and developing morality for Kû12 students.
Education	Ethics and Education			Models for solving ethical dilemmas within an educational context.
	Family Calcard Camanasity		.,	Focuses on the many socializing aspects of young children's social worlds. Through the use of ecological
E L	Family, School, and Community		Х	perspectives, explores the role of families, schools, and communities on children's social development,
Education	in Early Childhood Multicultural Education in K-12			especially in early childhood. Provides a theoretical and empirical overview of educational issues affecting low-income immigrant and U.S.
Education	Schools		X	born minority student populations in an increasingly diverse and changing society.
Laucation	3010013			Multiculturalism and under-represented U.S. minorities and the visual and performing arts: perspectives in
	Multimedia and the Arts in the		Х	artistic perception, creative expression, historical and cultural context, aesthetic valuing, and media literacy in
Education	Multicultural Classroom		^	the interpretation and production of multimedia arts products and applications for K-12 classrooms.
	Origins, Purposes, and Central		X	An introduction to the role of education in U.S. society and to central issues in Kû12 education. Education is
Education	Issues in K-12 Education			studied from four different perspectives: social, historical, philosophical, and political.
				Examination of contextual, psychosocial, and biological factors contributing to the social development of
	6 . 15		Х	children and adolescents. Theoretical perspectives, empirical findings, and methodological issues are
e i	Social Development in			emphasized. Implications of the scientific evidence for practical and policy decision-making surrounding
Education	Education			development are discussed.

School	Title	Sustainability Course	Course That Includes Sustainability	Description
	Theories and Pedagogies of		Х	Introduces theoretical frameworks to examine the role of race in American education. Emphasis is placed on
Education	Race in Education			introducing students to different race and ethnicity paradigms.
	Total Education	0	11	
				Sources, dispersion, and effects of air pollutants. Topics include emission factors, emission inventory, air
	A: B II :: I C . I		X	pollution, meteorology, air chemistry, air quality modeling, impact assessment, source and ambient monitoring,
Engineering	Air Pollution and Control			regional control strategies.
	Carbon and Energy Footprint		Х	Process design for wastewater treatment. Mass- and energy-balance analysis applied to water and wastewater
Engineering	Analysis		Λ	treatment systems. Case studies include analysis of water supply, treatment, reclamation, and reuse.
3 3				Application of chemical engineering basics to practical design problems; process economics; process safety;
			X	environmental impacts; a major team design project with progress reports, oral presentation, and technical
Engineering	Chemical Engineering Design II			report with engineering drawings and economics.
	Chemical Engineering		X	Continuation of the CBEMS 140A covering mass transfer operations such as distillation, absorption, extraction,
Engineering	Laboratory II		^	etc. Rate and equilibria studies in simple chemical systems with and without reaction. Study of chemical process.
Liigilieeiiiig	Laboratory II			Principles of thermodynamics: definitions, basic concepts, and laws; property relationships; construction of
	Chemical Processing and		Х	thermodynamic charts and tables; energy balances; phase and chemical equilibria; combined mass and energy
Engineering	Energy Balances			balances.
				Introduces basic concepts of nuclear chemistry and focuses on chemical engineering aspects of the nuclear
	Chemistry and Technology for		X	power industry. A broad survey of the nuclear fuel cycle (uranium processing, reactor concepts, spent fuel
Engineering	the Nuclear Fuel Cycle			treatment and repositories) will be given. Fundamentals of gaseous, liquid, and coal-fired combustion and fuel cell systems. Fuels, fuel-air mixing,
	Combustion and Fuel Cell		Х	aerodynamics, and combustion and fuel cell thermodynamics. Operating and design aspects of practical systems
Engineering	Systems		X	including engines, power generators, boilers, furnaces, and incinerators.
Engineering	Contemporary and Emerging Environmental Challenges		Х	Introduces contemporary and emerging environmental challenges, illustrates links between human behavior, environmental policy, and engineering practices, examines policy options in the context of current institutions, and introduces tools and frameworks to reach sound economic, social, and environmental solutions. Space propulsion requirements and maneuvers, stressing those best suited to electric propulsion. An
Engineering	Electric Propulsion		Х	introduction to plasma physics. Electrothermal, electromagnetic and electrostatis accelerators, with emphasis in technologies (ion engines, Hall thrusters and colloidal thrusters) belonging to the latter family.
Engineering	Energy Facilities Inspection		Х	Inspection of power-generating stations of various types, oil and gas processing facilities, and end-use facilities. Real-world introduction to the theory and practice of entrepreneurship. Explore organizational, strategic, and
	Entrepreneurship for Scientists		X	financial challenges; start-up strategies; business idea evaluation; and business plan writing. Presentations by
Engineering	and Engineers		^	prestigious entrepreneurs and industry leaders.
<u> </u>	3 22 5			Fundamental and applied principles of microbiology. Structures and functions of microorganisms, the
	Environmental Microbiology		Х	microbiology of water, wastewater and soil used in environmental engineering, and the impact of
Engineering	for Engineers			microorganisms on human and environmental health.
			Х	Introduction to environmental processes in air and water, mass balances, and transport phenomena.
Engineering	Environmental Processes			Fundamentals of water-quality engineering including water and wastewater treatment.

School	Title	Sustainability Course	Course That Includes Sustainability	Description
эспооі	Title	Course	Sustainability	Description Fundamentals of fluid motion in open channels. Navier-Stokes equations and one-dimensional momentum and
	Fluid Mechanics of Open		X	energy principles. Topics include rapidly varied flow, flow resistance and turbulence, gradually varied flow,
Engineering	Channels		^	unsteady flow, and computational methods for channel flow modeling.
Liigineeriiig	Chamicis			Fluid and thermal engineering laboratory. Experimental analysis of fluid flow, heat transfer, and thermodynamic
	Fluid Thermal Science		X	systems. Probability, statistics, and uncertainly analysis. Report writing is emphasized and a design project is
Engineering	Laboratory		,	required.
				Introduction to electrochemistry and electrocatalysis; nature of fuel-cell electrodes and electrolytes; charge
	Fuel Cell Fundamentals and		X	transfer reactions at interfaces; charge transport and mass transport processes; fuel processing reactions;
Engineering	Technology			determination of fuel cell efficiency, fuel flexibility, emissions and other characteristics.
9 11 9	3,			Topics include conservation of fluid mass, storage properties of porous media, matrix compressibility, boundary
			X	conditions, flow nets, well hydraulics, groundwater chemistry, and solute transport. Design projects and
Engineering	Groundwater Hydrology			computer applications included.
	, , ,			Elements of the hydrologic cycle including precipitation, infiltration, evapotranspiration, ground water, and
			X	runoff. Unit Hydrograph theory and routing methods. Introduction to precipitation/runoff relationship and
Engineering	Hydrology			watershed modeling. Statistical methods and flood frequency analysis.
				Plate tectonics. Structural dynamics. Earthquake magnitude, intensity, and frequency. Seismic damage to
	Introduction to Earthquake		X	structures. Earthquake load prediction including response spectra, normal mode, and direct integration
Engineering	Engineering Engineering			techniques. The basis of building code earthquake load requirements for buildings. INTERNITY INT
			X	
				standards. Materials selection in design. Materials selection to meet specific requirements. Statistical
			^	considerations. Engineering economics. Seminars on materials selection and design by industry leaders and
Engineering	Materials Selection and Design			faculty.
				A comprehensive group design project experience that involves identifying customer needs, idea generation,
			X	reverse engineering, preliminary design, standards, prototype development, testing, analysis, and redesign of a
	Mechanical Engineering		^	product involving fluid, thermal, and mechanical components. Introduces design for manufacturing and the
Engineering	Design			environment.
				Analysis, modeling, and management of civil engineering systems. Statistics and system performance studies,
			X	probabilistic models and simulation, basic economics and capital investments, project elements and
	Methods III: Modeling,		Α	organization, managerial concepts and network technique, project scheduling. Emphasis on real-world
Engineering	Economics, and Management			examples. Laboratory sessions.
				Overview of the chemistry, physics, and applications of nanometer-scale materials. Explore the effects of
	Nano-Scale Materials and		X	composition, bonding, and confinement on physical properties of nanomaterials, their chemical syntheses, and
Engineering	Applications			their device physics in electronic, optoelectronic, and energy technologies.
		1		Advanced treatment of nuclear structure, nuclear reactions, and radioactive-decay processes. Introduction to
		1	X	nuclear activation analysis, isotope effects, radiation chemistry, hot-atom chemistry, nuclear age-dating
Engineering	Nuclear and Radiochemistry			methods, nuclear reactors, and nuclear power.
	Physical-Chemical Treatment		X	Theory and dynamics of physical and chemical separation processes in water and wastewater treatment. Topics
Engineering	Processes			include coagulation, sedimentation, filtration, gas-transfer, membrane separations, and adsorption.
Faminas -:	Dawer Customs	1	X	Consisting transmission and use of electrical energy Foult relative contestion stabilities of
Engineering	Power Systems		V	Generation, transmission, and use of electrical energy. Fault calculation, protection, stability, and power flow.
Engineering	Power Systems Laboratory		Х	Experiments and field trips relevant to studies in power systems. Application of thermodynamics and fluid mechanics to basic flow processes and cycle performance in propulsion
Facinacian	Dramulaian	1	X	
Engineering	Propulsion			systems: gas turbines, ramjets, scramjets, and rockets.

		6	Course That	
School Title	Title	Sustainability Course	Includes Sustainability	Description
3011001	Title	Course	Justamability	leaches problem definition, detailed design, integration, and testability with teams of students specifying,
			X	designing, building, and testing complex systems. Lectures include engineering values, discussions, and ethical
Engineering	Senior Design Project I		Α	ramifications of engineering decisions.
Liigiiicciiiig	Serior Besign Foject i			Teaches problem definition, detailed design, integration, and testability with teams of students specifying,
			X	designing, building, and testing complex systems. Lectures include engineering values, discussions, and ethical
Engineering	Senior Design Project II			ramifications of engineering decisions.
3 22 3				Basic principles, design, and operation of solar and other renewable energy systems including solar photo-
1	Solar and Renewable Energy	X		voltaic, solar thermal, wind, and PEM fuel cell. Includes power generation and storage, and renewable fuels for
Engineering	Systems			transportation and stationary power generation.
				Basic principles, design, and operation of sustainable energy systems including wind, solar photo-voltaic and
1		X		thermal, hydroelectric, geothermal, oceanic, biomass combustion, advanced coal, and next generation nuclear.
Engineering	Sustainable Energy Systems			Includes power generation, storage, and transmission for stationary power generation.
				Analysis of the impacts of motor vehicle transportation on the environment. Introduction to life cycle analysis
I	Transportation and the	X		applied to transportation. Basic economic tools for transportation externalities. Transportation planning, urban
Engineering	Engineering Environment			form, health, and the environment. Transportation sustainability.
				Introduction to analysis and design of fundamental transportation system components, basic elements of
1	Transportation Systems I:		X	geometric and pavement design, vehicle flow and elementary traffic, basic foundations of transportation
Engineering	Analysis and Design			planning and forecasting. Laboratory sessions.
T 6				Introduction to fundamentals of urban traffic engineering, including data collection, analysis, and design. Iraffic
	Transportation Systems II:		X	engineering studies, traffic flow theory, traffic control devices, traffic signals, capacity and level of service analysis
Engineering	Operations & Control			of freeways and urban streets. Laboratory sessions.
				Theoretical foundations of transportation planning, design, and analysis methods. Theory and application of
	Transportation Systems III:		X	aggregate and disaggregate models for land use development, trip generation, destination, mode, and route
Engineering	Planning and Forecasting			choice. Transportation network analysis. Planning, design, and evaluation of system alternatives.
	Transportation Systems IV:			Fundamentals of traffic on urban freeways, including data collection analysis, and design. Traffic engineering
	Freeway Operations and		X	studies, traffic flow theory, freeway traffic control devices, capacity, and level of service analysis of freeways and
Engineering	Control			highways. Laboratory sessions.
	Wastewater Treatment Process		X	Design of biological treatment processes. Topics include attached and suspended growth, aeration, anaerobic
Engineering	Design			systems, process control, and economics. Design projects included. Principles governing the analysis and design of water resource systems including pressurized pipelines, pipe
- · ·	W . D		X	networks, channels, and ground water. Coverage of fluid mass, momentum and energy conservation, flow
Engineering	Water Resources Engineering			resistance, and related laboratory measurements in different systems. Basic principles of hydrologic modeling are practiced. Concepts of watershed delineation, land use change
				impact, design studies, and GIS tools are discussed. Focus on the USACE (HEC) software tools (HEC-HMS, and
For a transaction or	Matanala ad Mardalina		X	' -
Engineering	Watershed Modeling			HEC-RAS) along with their associated GIS interfaces.
		2	20	
		3	38	
	Total Engineering			Untraduction to the variety of cultures, nelitical exceptations, early structures, and extintic supressions excepted
		1		Introduction to the variety of cultures, political organizations, social structures, and artistic expressions created
		1	X	by Africans over a broad time span. Indigenous development of African societies in distinct regions of the
Humanities	Africa: Societies and Cultures			continent. Issues, themes, processes for understanding history of Africa. A study of urban communities in the United States, from colonial times to the present. Traces the impact of
			.,	
		1	X	industrialization and urbanization on social and cultural life, and investigates the significance of urban life for
Humanities	American Urban History			U.S. democratic culture.

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Humanities	Applied Ethics		Х	Topics may include capital punishment, world hunger, obligations to future generations, environmental ethics, animal rights, economic justice, sexual morality, affirmative action, racism and sexism, or legalization of drugs.
Humanities	California Dreaming: Conquest, Conflict, and Globalization in the Golden State		Х	California as a case study of national trends and as a unique setting: its specific problems and culture. Major themes include: colonization, immigration, race relations, agricultural development, industrialization, urbanization, working class movements, social conflict, and political reform.
Humanities	Critical Cultural Studies		Х	Introduces a variety of ways of understanding cultural phenomena in relation to different power structures. These cultural phenomena may include comics, film, literature, sports, music, festivals, telling stories, or eating out.
Humanities	Cultural Studies		Х	Introduces students to a variety of cultural practices (literature, blogs, films, radio, comics) from across the globe. Focuses on the ways that context, genre, and medium (e.g., written, visual, oral) affect how these practices are produced, circulated, and received.
Humanities	Documentary and Experimental Film and Media		Х	Examines nonfiction and/or experimental cinemas and media, such as documentary, the historical avant-garde, video art, and activist media. Students consider the specific aesthetics and ideologies of forms distinct from narrative feature films.
Humanities	Global Cultures I		Х	Introduction to the processes by which economies, cultural practices, national entities, groups, individuals, and personal identities have undergone globalization. General background and methodological tools for understanding problems and processes of globalization.
Humanities	Global Cultures II		Х	Introduction to the processes by which economies, cultural practices, national entities, groups, individuals, and personal identities have undergone globalization. Explores how globalization has manifested itself in specific topics, periods, or societies.
Humanities	Historical Foundations		Х	Offers an overview of the European experience from its social, political, and cultural foundations to modern European issues and institutions in a globalized world. Topics include social, political, and cultural history up to the founding of the European Union.
Humanities	International Studies and the Classics		Х	Develops a broader understanding of the formation of different cultures and countries of Classical times and their impact on the modern world. Examination of gender and sexuality in relation to the emergence of the modern world, modernity, and
Humanities	Money, Sex, and Power		Х	capitalism; commodification, circulation, and transnational exchanges relating to race, gender, class, sexuality, religion, and nationality.
Humanities	Race and Urban Space		Х	Examines how ethnic and racial processes shape and structure interactions in urban settings, such as schools, housing, employment, and public spaces, with attention to the international impact of globalization and postcolonial forces.
Humanities	Social Ecology and Sciences: Problems and Methods for Global Middle East Studies		Х	Introduces students to the broad set of approaches to studying the Middle East as a global zone of cultural, political, and economic interaction, focusing on the disciplines related to Social Ecology.
Humanities	Studies in Architecture after 1945		Х	Architecture and related design practices from 1945 through present are studied in relation to social, aesthetic, technological, and political questions. Architecture and related design practices from the late eighteenth century through 1945 are studied in relation
Humanities	Studies in Modern Architecture The Metropolis and Other		X	to social, aesthetic, technological, and political questions. Examines the relationship between space and culture; cultural production in the city, suburb, and/or countryside;
Humanities	Cultural Geographies			spaces in texts and artifacts (film, literature, comics, photographs) in a global context.
	Total Humanities	0	17	

School	Title	Sustainability Course	Course That Includes Sustainability	Description
				Explores how new forms of information technology may support transition to a sustainable civilization. Topics
	Global Disruption and		X	include design and implementation of IT systems, science of global change, online community building, and
ICS	Information Technology			ôgreen ITö. Activities involve reading, writing, discussion, and final project.
				leacnes problem definition and analysis, data representation, algorithm design, component integration,
			X	solution validation, and testability with teams specifying, designing, building, and testing a solution to a bioinformatics problem. Lectures include engineering values, discussions, and ethical ramifications of biomedica
ICS	Project in Bioinformatics			· · · · · · · · · · · · · · · · · · ·
1C3	Project in Bioinformatics			computing issues.
		0	2	
	Total ICS	0	2	
	Total ics			Examines the major components of the EarthÆs cryosphere. Characteristics, volume, extent, remote sensing
1		X		observations, long-term trends, mass balance, key physical processes, relevance and importance to the climate
Phy Sci			system, responses and feedbacks, future evolution, and key uncertainties will be discussed.	
				Introduces students to the geological processes which have formed and continue to shape the Earth. Topics will
			X	include geological time, minerals and the rock cycle, plate tectonics and associated geological hazards, earth
Phy Sci	Advanced Geology			resources, and earth surface processes.
_	Advanced Laboratory in			Modern synthesis and characterization of organic and inorganic materials including polymers, nanomaterials, and biomaterials. State-of-the-art characterization techniques include gel permeation chromatography, dynamic
	Chemistry and Synthesis of		X	light scattering, thermal analysis, mechanical analysis, electron and scanning probe microscopy, X-ray diffraction
Dhy Cai	Materials			and porosimetry.
Phy Sci	Iviateriais			Rapid-paced comprehensive treatment of organic chemistry. Focuses on molecular structure, reactivity,
				stability, scope and mechanisms of organic reactions. Topics include: structure and bonding; theoretical organic
			X	chemistry; acidity and basicity; reactive intermediates; pericyclic reactions; stereochemistry; organic synthesis;
Phy Sci	Advanced Organic Chemistry			natural products; organic photochemistry.
				Air pollution occurs on regional to global scales. A wide range of air pollution sources and physical, chemical,
	Air Pollution: From Urban	X		and meteorological sciences behind air pollution are introduced. The consequences of air pollution to our
Phy Sci	Smog to Global Change			society are also discussed.
1		.,		Chemistry of the troposphere and stratosphere. Topics include processes controlling the lifetime and reaction
Dhu Cai	Atmospheric Chemistry	X		pathways of chemicals in the atmosphere, the role of the atmosphere in biogeochemical cycles, and interactions between atmospheric chemistry and the physical climate system.
Phy Sci	Atmospheric Chemistry			Differential calculus with applications to life sciences. Exponential, logarithmic, and trigonometric functions.
Phy Sci	Calculus for Life Sciences		X	Limits, differentiation techniques, optimization and difference equations.
,				Addresses ways in which chemistry affects everyday life. Topics include pollution, global warming, water
			X	supply/demands, biodiesel fuels, foods we eat, natural/synthetic materials, common drugs, drug design. Learn
Phy Sci	Chemistry Around Us			and apply basic chemistry concepts. Use risk/benefit analysis for optimal solutions.
				From public health to the global climate system this course will explore the impacts of air pollution from the
		X		beginning of human history to current and emerging issues. Scientific concepts behind air pollution and
Phy Sci	Consequences of Air Pollution			solutions will be discussed.
Dlave Cai	Cosmology: Humanity's Place in the Universe		X	An overview of the origin, evolution, and ultimate fate of the Universe. Galaxies and dark matter. The Big Bang
Phy Sci	in the Universe			and dark energy. Ancient world models.
	Data Analysis for Earth	×		Analysis and interpretation of geophysical data, including functional fitting, probability density functions, and
Phy Sci	Sciences			multidimensional time-series methods, with applications in atmospheric, oceanic, and biogeochemical sciences.

School	Title	Sustainability Course	Course That Includes Sustainability	Description
	Forth Contain Crimes	X		Introduction to methods used to measure exchange of gases and energy between the atmosphere and
Dl C.:	Earth System Science			terrestrial ecosystems. Laboratories include data acquisition and isotopic and chromatographic analysis. Field
Phy Sci	Laboratory and Field Methods			measurements at UCI's Marsh Reserve include microclimate, hydrology, trace-gas exchange, and plant growth. Composition, physics, and circulation of Earth's atmosphere with an emphasis on explaining the role of
		X		atmospheric processes in shaping the climate system. Topics include atmospheric composition, the global
Phy Sci	Earth's Atmosphere	^		energy balance, radiative transfer and climate, atmospheric circulation, and climate sensitivity.
Triy oci	Earth 57 timesphere			A mechanistic perspective on ecosystem processes. Covers ecosystem development, element cycling, and
Phy Sci	Ecosystem Ecology		X	interactions with plants and microbes. The role of ecosystems in environmental change is also addressed.
,	3,222			The physics of societyÆs energy production and consumption, and of their influences on the environment. Topics
		X		include fossil and renewable energy resources; nuclear power; prospects for a hydrogen economy; efficient and
Phy Sci	Energy and the Environment			environmentally benign transportation; efficient home and commercial energy usage.
			Examines the roles and strategies of advocacy groups, scientists, lobbyists, celebrities, pundits, politicians, and	
			X	other opinion-makers in creating and shaping public opinion on controversial environmental issues. Use and
Phy Sci	Phy Sci Environmental Controversies			misuse of science to influence public opinion is elicited.
				lopics include the fundamentals of stable, radioactive, and radiogenic isotope variability in the Earth System.
	Environmental Isotope		X	Focuses on theory, measurement techniques, biogeochemistry, hydrology, ecology, and climate related
Phy Sci	Geochemistry			applications.
D. O.			X	Establishes a fundamental understanding of microbes living in the environment, including their distribution,
Phy Sci	Environmental Microbiology Fundamental Processes in			diversity, and biochemistry, and discusses how they attribute to global biogeochemical cycles. An introduction to the physical environment, biological systems, and human-environment interactions. Explores
	Earth and Environmental	V		physical principles such as fluid transport and reaction rates using environmental examples as well as principles
Dla . Cai		X		
Phy Sci	Studies			of populations, ecosystems, carrying capacity, and sustainable use of resources. Introduction to Geographic Information Systems (GIS). Topics include fundamentals of cartography,
				creating/editing GIS data, linking spatial and tabular data, georeferencing, map projections, geospatial
	Fundamentals of GIS for	X		analysis, spatial statistics, and the development of GIS models. Examples from hydrology, ecology, and
Phy Sci	Environmental Science			Igeology.
Triy oci	Environmental science			Observations over the 20th century show extensive changes in atmospheric composition, climate and weather,
	Global Climate Change and	X		and biological systems that have paralleled industrial growth. Evidence of globally driven changes in these
Phy Sci	Impacts			biogeochemical systems is studied, including projected impacts over the 21st century.
	'			An överview of glóbal environmental changes including climate change, sea level risé, biodiversity loss, land and
		X		ocean degradation, and resource depletion. Discusses scientific, cultural, historical, and policy dimensions of
Phy Sci	Global Environmental Issues			these issues as well as possible solutions.
	Honors Research in Earth	Х		Undergraduate honors research in Earth System Science. A student commitment of 10-15 hours a week is
Phy Sci	System Science	^		expected, and a written report is required at the end of the quarter.
				Survey of the physical basis of modern technology, with an emphasis on electronics and materials. Topics include
			X	power generation and distribution, communication (radio, TV, telephone, computers, tape recorders, CD
Phy Sci	How Things Work			players), imaging (optics, x-rays, MRI), and modern materials (alloys, semiconductors, superconductors). Introduction to the basic science and state of predictability of various natural catastrophic events including
	Hurricanes, Tsunamis, and		V.	lintroduction to the basic science and state of predictability of various natural catastrophic events including learthquakes, volcanic eruptions, tsunamis, landslides, floods, hurricanes, fires, and asteroid impacts and their
Phy Coi	· · · · · · · · · · · · · · · · · · ·		Х	
Phy Sci	Other Catastrophes Introduction to Chemical			interactions and implications with human society in the U.S. and globally. Introduction to the basic principles of chemical biology: structures and reactivity; chemical mechanisms of
Phy Sci	Biology		X	enzyme catalysis; chemistry of signalling, biosynthesis, and metabolic pathways.
i ily Ju	ыогоду			enzyme catarysis, chemistry of signalling, biosynthesis, and metabolic pathways.
	Introduction to Chemical		X	Introduction to the basic laboratory techniques of chemical biology: electrophoresis, plasmid preparation, PCR,
		I	· ^	The state of the s

School	Title	Sustainability Course	Course That Includes Sustainability	Description
o dino di	Introduction to Earth System			Covers the origin and evolution of the Earth, its atmosphere, and oceans, from the perspective of
Phy Sci	Science	X		biogeochemical cycles, energy use, and human impacts on the Earth system.
				Introduction of scientific, technological, environmental, economic, and social aspects underlying the threat and
	Introduction to Global Climate	X		understanding of global climate change. Human and natural drivers of climate. Impacts of climate on natural,
Phy Sci	Change			managed, and human systems, including their vulnerability and ability to adapt.
				Simulate the Earth's system using computer models. Covers the interaction of the air, land, and ocean, and
	Introduction to Modeling the	X		explores how changes to one part of the environment affect the complete Earth system. Utilizes technological
Phy Sci	Earth System			tools to understand scientific principles.
				Weekly presentations by Earth System Science faculty describing ongoing research in their laboratories. Students
İ	Introduction to Research in	X		are introduced to the range of research topics and methods in Earth System Science and to the research
Phy Sci	Earth System Science			opportunities available within the Department.
		X		The role of terrestrial processes in the Earth system. Provides an introduction to ecosystem processes that
Phy Sci	Land Interactions	^		regulate the cycling of energy, water, carbon, and nutrients. Analysis of the impact of human activities.
			Х	An overview of the scientific quest to discover life elsewhere in the universe. Topics include the origin of life on
Phy Sci	Life in the Universe			Earth, Mars, extra-solar planets, interstellar travel, and extra-terrestrial intelligence.
				An introduction to common environmental issues using case studies from Orange County and California. Studies
_,	Local and Regional	X		natural hazards as well as human-caused problems with air quality, water quality, coastal pollution, ecosystem
Phy Sci	Environmental Issues			degradation, and urban climate. Conservation of marine ecosystems is important yet challenging due to competing physical, ecological, social,
	Manina Cananantian Dalian			
DI C:	Marine Conservation, Policy,		Х	and regulatory issues. Students explore the principles of marine conservation, the scientific basics of marine
Phy Sci	and Society			ecosystems, and political and social processes involved with resource protection. Presents an overview of marine ecosystem structure, diversity, and processes in the context of global change,
	Marine Ecosystems and Global			including the impacts of climate warming, ocean acidification, marine fisheries, and anthropogenic additions of
Dlave Cai	· ·	X		
Phy Sci	Change			nutrients and pollutants. Processes controlling the major and minor element composition of seawater and element distributions in the
				ocean. Gas exchange, carbon dioxide system, stable isotopes, radionuclides as tracers and chronometers,
	Marine Geochemistry and		X	particle fluxes, organic geochemistry, sediment geochemistry, global cycles of biogeochemically important
Phy Sci	Biogeochemistry			elements.
Thy Sci	Biogeochemistry			Mathematical modeling and analysis of phenomena that arise in engineering physical sciences, biology,
Phy Sci	Mathematical Modeling		Х	economics, or social sciences.
Triy Sci	Wathernatical Wodering			Overview of oceanography for those interested in Earth System Science. Focus is on physical, chemical, and
			Х	biological processes that drive biogeochemical cycling in the oceans. Coastal systems are also reviewed, with an
Phy Sci	Ocean Biogeochemistry		,,	emphasis on California waters.
,	a country good normally			Examines circulation of the world oceans and ocean chemistry as it relates to river, hydrothermal vent, and
			Х	atmospheric inputs. Geological features, the wide variety of biological organisms, and global climate changes,
Phy Sci	Oceanography		,,	such as greenhouse warming, are also studied.
,	3 , ,			Introduction of the basic science that governs the cryosphere and its interaction with the climate system. Covers
	On Thin Ice: Climate Change	X		some of the significant economic, sociological, and political consequences of the recent melting of the
Phy Sci	and the Cryosphere			cryosphere driven by anthropogenic climate change.
-				Fundamental concepts relating to carbon compounds with emphasis on structural theory and the nature of
			X	chemical bonding, stereochemistry, reaction mechanisms, and stereoscopic, physical, and chemical properties of
Phy Sci	Organic Chemistry			the principal classes of carbon compounds.
-			V	Modern techniques of organic chemistry, using selected experiments to illustrate topics introduced in CHEM
Phy Sci	Organic Chemistry Laboratory		X	51A-CHEM 51B-CHEM 51C.

School	Title	Sustainability Course	Course That Includes Sustainability	Description
	11111	00000		Modern experimental techniques in organic synthesis including experience with thin-layer chromatography,
			X	liquid chromatography, and gas chromatography. Modern methods of structure elucidation including FT NMR
Phy Sci	Organic Synthesis Laboratory			are employed in the characterization of products.
				Explores past changes in Earth's climate. Topics include tools and techniques used to reconstruct past climate
		X		from natural archives; records and mechanisms of past climate changes throughout Earth history; and lessons
Phy Sci	Paleoclimatology			learned from the paleo-record for predication of future climate.
				Introduction to Earth materials and processes. Topics include rocks and minerals, plate tectonics, volcanoes,
			X	earthquakes, Earth surface processes, Earth resources, geologic time, and Earth history. Laboratory work
Phy Sci	Physical Geology			involves hands-on study of geologic materials, maps, and exercises pertaining to geologic processes.
				Physical processes that determine the distribution of water properties such as salt and temperature. Fluid-
l			X	dynamical underpinnings of physical oceanography. Wave motions. The wind-driven and thermohaline
Phy Sci	Physical Oceanography			circulation. Similarities and differences between ocean and atmosphere dynamics.
				An examination of the interactions between plants and their environment. Emphasis on the underlying
			X	physiological mechanisms of plant function, adaptations and responses to stress, and the basis of the
Phy Sci	Physiological Plant Ecology			distribution of plants and plant assemblages across the landscape.
				Students learn programming and numerical methods in Python with applications in Earth System Science and
	Programming for Earth System	X		ecology. Topics include regression, uncertainty and significance, the development of simple box models, and the
Phy Sci	Science and Ecology			visualization of multi-dimensional climate and satellite datasets.
	Research Methods for	X		Develops students' analytical skills that are necessary to engage and assess the sustainability of coupled human
Phy Sci	Sustainable Systems Analysis	^		and natural systems and effectively communicate their findings.
				Satellite remote sensing data are increasingly used to study the Earth system. Provides an overview of the
	Satellite Remote Sensing for	X		principles behind remote sensing, and the types of satellite data available for study of the oceans, land, and
Phy Sci	Earth System Science			atmosphere.
				Students learn and practice effective science communication skills useful in public and educational outreach.
	Science Communication and		X	Topics include research explication, language scaffolding, educational psychology, oral presentation techniques,
Phy Sci	Outreach			K-12 science standards, and effective writing styles for op-eds, blogs, and Web sites. An introduction to fundamental physics principles, the scientific process, and the mathematical language of
	Caianaa Fiatian and Caianaa			
D. O.	Science Fiction and Science		X	science, used to analyze topics drawn from superheroes, science fiction works, and current science news to
Phy Sci	Fact			distinguish science fiction and science fact. May be offered online. Why is climate change such a difficult problem? What can we do about it? The course will introduce the global
	Californith a Foreness Caulage			
DI C:	Solving the Energy-Carbon-	X		politics of energy and climate, assess options for decreasing energy demand, generating low-carbon energy,
Phy Sci	Climate Problem			sequestering carbon, geoengineering, and adaptation. Space exploration. Human missions to the moon, Mars, and beyond. Space stations, observatories, and deep-
				space probes. Robots and drones on distant worlds. Propulsion mechanisms, rockets, space flight, and the
Dla . C ai	Constant		X	
Phy Sci	Space Science			dangers of solar radiation. Comprehensive treatment of modern conceptual and methodological approaches to hydrological science.
				Combines qualitative understanding of hydrological processes with quantitative representation, approaches to
			X	measurement, and treatment of uncertainty. Components of the hydrological cycle and their linkages within the
Dlav Cai	Tarractrial Hudralasu			
Phy Sci	Terrestrial Hydrology			coupled Earth system. The composition and circulation of the atmosphere with a focus on explaining the fundamentals of weather and
Dl C -:	The Atmosphere	X		climate. Topics include solar and terrestrial radiation, clouds, and weather patterns.
Phy Sci	The Atmosphere			Overview of anticipated impacts of climate change on California's landscape. Includes projections of future
	The Impact of Climate Change	×		climate; anticipated impacts on ecology, hydrology, wildfire, coastal environment, and agriculture; and efforts to
Phy Sci	on California's Landscape	^		reduce greenhouse gas emissions or adapt to climate change through land management.
i ily oci	on Camornia's Landscape			preduce greenhouse gas emissions or adapt to dimate change through land management.

			Course That	
		Sustainability	Includes	
c 1 1	I	•		
School	Title	Course	Sustainability	Description An introduction to sustainability as it relates to marine resources and conservation. Topics include the scientific
				basis of our understanding of marine ecosystems, and the political, social, and cultural principles that govern
Dlave Cai	The Sustainable Ossan	X		
Phy Sci	The Sustainable Ocean			resource protection. Introduction to thermodynamics and systems of many particles. Topics include first and second laws of
			X	thermodynamics, ideal gas laws, kinetic theory, heat engines and refrigerators, thermodynamic potentials, phase
Phy Sci	Thermal Physics		^	transitions, dilute solutions, chemical equilibrium, and basic statistical distributions.
Tily Sci	Thermai Physics			Macroscopic theory of temperature, heat, and entropy; mathematical relationships of thermodynamics; heat
Phy Sci	Thermodynamics		X	engines; phase transitions.
Tily Sci	mermodynamics			engines, phase transitions.
			X	Provides an overview of weather systems in midlatitudes and tropics. The fundamental dynamics possible for
Phy Sci	Weather Analysis		,,	these weather systems are described. Elementary weather analysis and forecasting techniques are introduced.
Triy oci	vveatrer / marysis			these weather systems are described. Elementary weather analysis and lovedstring real improduced.
		29	34	
	Total Phy Sci	2,	34	
	Total Tily Sci			Introduction to how air pollutants are emitted into the atmosphere, how people are most exposed to air
	Air Pollution, Climate, and		X	pollutants in developed and developing areas, physical and meteorological processes that affect transport, and
Public Health	Health		Α	the influence of air pollutants on global warming.
T done i leartii	Case Studies in Public Health			Presents case studies in various themes of public health practice to demonstrate how the principles of public
Public Health	Practice		X	health were established and continue to evolve.
				Student participatory course practicing initiation, planning, and coordination of various speakers on the subject
Public Health	Disparities in Health Care		X	of Disparities in Health Care.
	'			Examines factors involved in shaping public health and environmental policy. Topics include the role of science in
	Environmental and Public	X		public health policy, the function of governmental regulatory agencies, citizen participation, and economic and
Public Health	Health Policy			sociopolitical aspects of controlling infectious diseases and regulating carcinogens.
			V	Introduction to geologic principles and applications to environmental problems. Topics include: tectonic
			Х	processes, earth materials, soils, river processes, groundwater, the coastal environment, slope failures, seismic
Public Health	Environmental Geology			hazards, mineral resources, and land-use evaluation based on geologic conditions. Examples from case studies. Impact of the physical environment on individual and group behaviour. Three basic concerns examined: (a)
			X	environmental determinants of behaviour at the individual and interpersonal level; (b) social planning and urban
Public Health	Environmental Psychology			design; (c) methodological approaches to the study of environmental issues.
				Overviews how pollution in the environment affects human health. Topics are toxicology, epidemiology, risk
	Environmental Quality and	X		assessment, water, food, air, radiation, pesticides, solid and hazardous waste. Included are interdisciplinary
Public Health	Health			elements of environmental regulations, education, and consumer protection. Examines the distribution of infectious disease and the health and disease risk among human populations.
				· ·
	Epidemiology of Infectious		X	Introduces basic methods for infectious disease epidemiology. Case studies of important diseases, including
Public Health	Disease			HIV and malaria, are conducted.
	Ethics and Responsible			Issues of scientific integrity and satisfies the requirements for training in public health ethics. Includes guidelines
B 1 1: 11 1:1	Conduct of Research in Public		X	for responsible conduct of research, federal and international codes, administrative review and approval, conflict
Public Health	Health			of interest, and privacy and safety of research participants. Provides a broad introduction to the use of Geographic Information Systems software to carry out projects for
Dulatia II Ist-	Geographic Information		X	
Public Health	Systems for Public Health			visualizing and analyzing spatial data to address significant issues of health care and policy-planning.

Calcad	Tal	Sustainability	Course That Includes	
School	Title	Course	Sustainability	Description Overview of scientific underpinnings of global environmental change and human health consequences. Provides
				an understanding of the fundamental dependency of human health on global environmental integrity.
	Health and Global	X		Encourages disciplinary cross-fertilization through interaction of students in environmental, health, and policy
Public Health	Environmental Change			sciences.
				Introduces theoretical perspectives from the social sciences to understand health behavior from the vantage
			X	point of individuals, their interpersonal contacts, communities, and ecological contexts. Application of theory to
Public Health	Health Behavior Theory			public health problems is a central focus.
				Examines ecological perspectives of health promotion programs and risk factors related to mortality/morbidity.
			Х	Analyzes effectiveness of health promotion strategies and issues in the existing healthcare systems in light of
Public Health	Health Promotion Programs			sociocultural beliefs and economical/political conditions.
				Indirect methods in estimating human exposure to environmental agents. Topics include air, noise, dermal and
			Х	ingestion exposure assessment, time-activity and micro-environmental approach, uncertainty and variability
Public Health	Human Exposure Modeling			analysis, and the use of GIS and remote sensing in exposure assessment.
				Introduces origins of human's realization that chemicals in the environment may adversely affect health.
5 1 11 11	Human Exposure to		X	Introduces the theory and principles of exposure assessment. Covers estimation of exposure, variability of
Public Health	Environmental Contaminants			measures, the way exposure assessment is incorporated into the risk-assessment paradigm. Focuses on processes of exposure to environmental toxins/agents and their impact to human health and the
	Introduction to Environmental		V	environment. Media transport, exposure assessment, susceptibility, behavior, and health effect of several toxins
Public Health	Health Science		Х	are discussed.
rublic nealth	Health Science			The distribution of disease and injury across time, space, and populations. Covers basic concepts and methods
Public Health	Introduction to Epidemiology		Х	of descriptive epidemiology including the natural history of disease, data, and indices of health.
T done i leditii	meroduction to Epidemiology			Examines the methodological approaches for studying the importance of genetic factors and gene-environment
	Introduction to Genetic		X	interactions in human diseases. Topics include: genetic and epidemiological concepts, population studies, family
Public Health	Epidemiology			studies, and applications in medicine and public health.
	37			Provides a foundational interdisciplinary understanding of global health issues and their importance to various
		X		societal goals, including poverty reduction, economic productivity, and peace promotion. Covers major
Public Health	Introduction to Global Health			communicable and non-communicable diseases and demographic patterns of disease burden.
				Study of natural and physical components of earth's environmental problems due to human activities. Topics
	Introduction to Urban	X		include global air, water, soil, biodiversity, rainforests, energy, demographics, agriculture, and urbanization.
Public Health	Environmental Health			Theme is sustainability. Integrated into the science are social, legal, and economic considerations.
				Natural disasters are natural Earth processes that adversely affect humans. Topics include tectonics,
		X		earthquakes, tsunami, volcanoes, landslides, severe weather, flooding, coastal processes, wildfire, related
Public Health	Natural Disasters			topics, and use of GIS for hazard and risk assessment. Global issues related to nutrition and public health. Evaluation of nutritional risk factors associated with the
Dode II a II a a lala	Nickaiki a a anal Clabal II a alab	X		development of chronic diseases and the role of nutritional medicine in prevention. Topics include food safety,
Public Health	Nutrition and Global Health			communicable diseases, supplements, and regulatory issues. Introduces the major concepts and principles of public health and the determinants of health status in
		×		communities. Emphasizes the ecological model that focuses on the linkages and relationships among multiple
Public Health	Principles of Public Health	^		natural and social determinants affecting health.
i done i leaitii	Timopies of Lubile Healtil			Examines historical aspects of public health administration including policies, procedures, trends, and
				development of organizations. Addresses information and skills necessary to succeed in public health leadership
			X	roles. Discusses strategic planning, collaborations, and ethical considerations for successful management in
Public Health	Public Health Administration			public health.

School	Title	Sustainability Course	Course That Includes Sustainability	Description
				Presents information about wellness from both science and policy perspectives in order to demonstrate the role
			X	of wellness in public health. Emphasizes the conditions that create wellness in the individual, the community, the
Public Health	Public Health and Wellness			nation, and the world.
				Ineoretical underpinnings and practical applications of communication sciences in public health practice.
			Х	Techniques of effective communication, including fear appeal and deterrence; social marketing; public-private
				partnerships; health service delivery; and outreach in rural and urban settings, and for international health
Public Health	Public Health Communication			strategies. Addresses the relationship of U.S. public health law to health systems at the individual and population levels.
	Public Health Law:	.,		Examines legislative and judicial concepts and how they are applied to disease prevention strategies, health
Dodelia II. a dala		X		
Public Health	Fundamentals in Action			services, management, and policy. International perspective on workplace health promotion. Strategies for developing programs to improve
	Public Health Programs for the		X	employee health and to decrease risks of chronic degenerative diseases. Case studies include assessment of
Public Health	Corporate World		^	employee health, program design, implementation, and evaluation. Emphasis on disease prevention.
rublic Health	Corporate World			Explores how war impacts public health both globally and domestically in the United States. Focus on the link
			Х	between war and the burden that it ultimately places on physical, mental, environmental, and societal health as
Public Health	War and Public Health		X	well as on health systems.
T done T learth	vvar and rabite realtin			wei as of meaningsterns.
		9	20	
	Total Public Health	,	20	
	Total Lublic Health			Provides an examination of Afghanistan's traditional social organization, economy, political organization, and
			Х	relationship among ethnic groups as a basis for discussing the consequences of domestic political turmoil and
Soc Sci	Afghanistan		^	foreign interventions over the last 20 years. Current situation and future addressed.
00000.	,g			An overview of African politics in comparative perspective. Central themes include the analysis of state-nation
			Х	building in Africa, AfricaÆs economy, and its civil society as this relates to implications for development
Soc Sci	African Politics			prospects on the continent.
	American Economic History			Examines how the American economy evolved from colonization to the post-war era. Topics include relations
	from Colonization to the		X	with foreign countries, the emergence of manufacturing and big business, railroads, slavery, war, the Great
Soc Sci	Present			Depression, the rise of fiscal and monetary policies.
				Explores the politics of urban and suburban America, including the policy making process; the exercise of
			X	political power; local politics, federalism and the problems of metropolitanism; and major policy problems
Soc Sci	American Metropolitan Politics			facing urban areas.
			Х	Focuses on the development and implementation of public policy in the United States. Lectures cover theoretical
Soc Sci	American Public Policy			models of the policy process as well as significant problems facing contemporary American decision-makers.
	A			The prehistory and cultural evolution of the civilization which originated in Mexico, including the Olmecs, Aztecs,
	Ancient Civilization of Mexico		X	Toltecs, Maya, and Zapotec, as well as the Pueblos of the Southwestern U.S. Topics include the origins of food
Soc Sci	and the Southwest			production and of the state.
Ca a Cai	Amaharan alami - f =l		X	Examines how food communicates ideas about ethnocentrism, disgust, privilege, gender, race, labor, social
Soc Sci	Anthropology of Food			identities and hierarchies, globalization, power, and the "Western diet" and its health consequences. Introduction to the analysis of human population including fertility, mortality dispersion, sex distribution.
			V	Attention is focused on the effects of these variables on, e.g., over-population, social disorganization, and the
Soc Sci	Rirths Dooths and Migratian		Х	stability of social institutions.
30L 3U	Births, Deaths, and Migration			Examines the structure and function of California government, traces historical development of political power,
			X	with constantly changing casts of power-brokers and seekers. Explores California exceptionalism and the roles
Soc Sci	California Politics		^	played by the electorate, legislature, executive, and organized interests in policy making.
JUC JU	Camornia i Ontics			prayed by the electorate, registature, executive, and organized interests in policy making.

School	Title	Sustainability Course	Course That Includes Sustainability	Description
			×	Addresses the basic structures and processes of contemporary Canadian government and politics. Additional topics may include regionalism, federalism, western alienation and oil, Canadian solutions to social welfare
Soc Sci	Canadian Politics		X	policy questions, developments in Quebec, and other issues associated with French-English relations. Examines nature, causes, and consequences of urbanization along with changing scale and complexity, demographic/ecological city growth patterns, quality of life in urban areas, processes of decision-making, and
Soc Sci	City and Community		^	bearing of sociological investigation on public policy concerns in contemporary urban society. Political economy seeks explanations that combine insights from both economics and politics. Topics include the
Soc Sci	Current Issues in Political Economy		X	interaction of government and markets, the causes of the Great Recession, and the sources of income and wealth inequality.
C C-i	Facility is a Mathematical and		Х	Studies relationships between human communities and their natural environments. The role of environment in shaping culture; effects of extreme environments on human biology and social organization; anthropologist's
Soc Sci	Ecological Anthropology Economic Anthropology		X	role in studying global environmental problems, e.g., African famine, tropical rain forests destruction. Economic systems in comparative perspective: production, distribution, and consumption in market and non-market societies; agricultural development in the third world.
Soc Sci	Economic Development		Х	Considers the process of economic development across the globe and why some countries are rich and others poor. Discusses the major problems facing developing countries, such as population growth, education, capital formation, environmental protection, and international trade.
Soc Sci	Economics of Asymmetric Information		X	Focuses on the effects of asymmetric information in the markets for traditional economic goods and resources, such as labor, insurance, used cars, credit, and in auctions and bargaining problems. Prerequisite:
Soc Sci	Economics of the Environment	×		Surveys economic aspects of natural resources, pollution, population, and the environment. Examines the causes of pollution; analysis of public policies regarding these problems. Emphasis on microeconomic aspects of environmental problems.
	Economics of the Environment	Х		Applications of the tools covered in ECON 145E to topics such as global warming, destruction of the ozone layer, and emissions trading. Emphasis on independent research papers. Syllabus and classes include writing
Soc Sci	II I	×		technique. The economics of markets for oil, natural gas, electricity, and renewable energy, and their interactions with each other and the rest of the economy. Effects of government intervention, policy measures, economic policy issues
Soc Sci	Energy Economics			arising between energy use and the environment. Examines society's changing relationship to the natural world. Delineates different models of "nature" and then
Soc Sci	Environment and Society	Х		explores their institutional roots, the social responses they have generated, and their implications for social inequality. Introduces students to anthropological and qualitative research on the relationship of humans, non-humans, and
Soc Sci	Environmental Anthropology	X		environments. Focuses on how to analyze and evaluate social and cultural differences in environmental perception, relations, justice, governance, sustainability, and cosmology.
	Field Studies in Social Policy		х	Advanced training in qualitative and ethnographic research centered on community service. Students pursue field studies at nonprofit agencies (200 hours) to understand current social problems in underrepresented and
Soc Sci	and Public Service		X	underserved communities. Through field placement, students apply theory to practice. Introduction to game theory and a survey of its political applications. Examples of topics covered include voting in small committees, legislatures, and mass elections; interest group activities and environmental issues;
Soc Sci	Game Theory and Politics I		X	institutional design, and the evolution of cooperative behavior. More advanced game theory and its political applications, beginning where Game Theory and Politics Lends.
Soc Sci	Game Theory and Politics II		X	Examples of topics covered include revolutions; arms race; spatial models of party competition; political manipulation; political coalitions and their power.

School	Title	Sustainability Course	Course That Includes Sustainability	Description
				Examines the social forces, life circumstances, and political and economic processes that influence gendered
			X	health outcomes. Focuses especially on women located at the economic and political margins of societies
Soc Sci	Gender and Global Health			throughout the world.
				Analysis of current state and trends in major inequality measures including the wage gap, occupational
	Gender and Race Inequality in		X	segregation, and access to managerial positions. Theories that purport to explain such differences, and the
Soc Sci	the Workplace			related empirical evidence, are also covered. Identifies factors of change that influence the twenty-first century. Students serve as mentors at high schools to
6 6 :			X	introduce globalization issues through workshops and lectures. Students must submit an application and have a
Soc Sci	Global Connect			3.0 or higher overall GPA. Offers a general overview of the rise of global interdependence in political, economic, demographic, and cultural
1			V	terms. Considers what drove people from relative isolation into intensified intercourse with one another, and
Soc Sci	Global Cultures and Society		X	investigates the consequences of this shift.
SOC SCI	Global Cultures and Society			Analyzes U.S. economic strategy, the impact of U.S. foreign policy on economic strategy, the rise and the
			X	challenge of future Great Powers, and focuses on theories of growth, hegemonic stability, and the rise of
Soc Sci	Global Economics and Security		^	interdependence in the economic field.
300 301	Global Economics and Security			Acquaints students with the fundamental patterns of the global economy. Emphasizes the historical roots and
Soc Sci Global Eco	Global Economy		X	political implications of economic choices.
30C 3Cl	Global Economy			Explores anthropological perspectives on issues of importance in an increasingly global society. Topics include
	Global Issues in		X	emphases on ethnic conflict; identity; immigration and citizenship; religion and religious diversity; medical
Soc Sci	Anthropological Perspective		^	anthropology; legal anthropology; development and economic change; gender.
300 301	7 Willing pological Telopective			Course explores how cultural contexts and national laws frame migration, and define categories of migrants,
	Global Migrations,		X	families, and people. Topics include illegality, transnational families, refugees and economic migrants, labor
Soc Sci	Anthropology, and the Law		^	conditions, deportation practices, discipline and crime, citizenship controversies, and nativism.
00000	, with openegy, and the Eart			Emerging issues of human security in the globalized world, including personal human security, physical integrity,
	Globalization and Human		X	human trafficking, global climate change, food. Challenges of these complex human security problems for a multi-
Soc Sci	Security			scalar system (international, national, local).
	1			Examines globalization and international issues from the perspective of sociology and related fields. Issues
	Globalization and		X	include economic globalization and global inequality, international environmental problems, international
Soc Sci	Transnational Sociology			politics, trends in global culture, and global conflict.
	9,			rrovides toundational knowledge in the discipline of anthropology by reviewing competing approaches in
			×	anthropological theory, from the nineteenth century to the present. Covers historically fundamental
	History of Anthropological		^	approachesùsocial evolutionism, functionalismùand recent movements such as feminism, cultural studies,
Soc Sci	Theory			poststructuralism, and postmodernism.
				Examines issues concerning cultural conceptions of HIV infection and disease worldwide. Topics include
		X		treatment and prevention, identity and behavior, risk, ethnicity, gender, youth, sexuality, activism, drug use,
Soc Sci	HIV/AIDS in a Global Context			illness, religion, the clinical encounter, national belonging, and the pharmaceutical industry.
				Examines the causes and consequences of human rights violations with a focus on Latin America. What are
		1	Х	human rights? When and where are they violated? What political mechanisms are available to deal with human
Soc Sci	Human Rights			rights problems? How effective are they?
				Explores peoples' relationships with other animals, a topic that continues to shape anthropological
			X	understandings of humanness, culture, and the social. Subthemes: symbol and matter, nature/culture,
Soc Sci	Humans and Other Animals			ontologies, relations, moralities, ecologies, futures. Explores immigration, ethnicity, and inequality as interconnected social forces. International migration,
		1		
6 6 :			Х	propelled by global inequalities, plays a central role in the formation of multinational societies, shapes inter-
Soc Sci	Immigration and Inequality			group relations and patterns of ethnic inequality, and transforms the immigrants themselves.

School	Title	Sustainability Course	Course That Includes Sustainability	Description
3011001	Title	Course	Justamability	Explains how people decide to migrate and how they are incorporated into a host society (both historically and
			X	currently), examines the effects of immigration on the U.S., analyzes how the framing of immigration shapes the
Soc Sci	Immigration and Social Policy		^	discourse about the issue.
	g			Examines immigration politics in Western Europe, analyzing trends and policy from the postwar period through
	Immigration Politics in Western		X	to today. Topics include citizenship, immigrant integration, asylum, the far-right, and a rotating focus on
Soc Sci	Europe			contemporary issues, e.g., terrorism, Islamophobia.
	'			A survey of indigenous peoples in North America: American Indians, Alaska Natives, First Nations, Native
İ			V	Americans. Tribal populations and geographic distributions, political and social organization, sovereignty, self-
1			Х	determination, intergovernmental relations; cultural continuity and change; management, preservation,
Soc Sci	Indian North America			development of environments/resources.
				Expands Geographic Information Systems (GIS) skills to more advanced theories and concepts in the spatial
1	Intermediate Geographic		X	analysis of social science issues and particularly to analyzing and interpreting spatial data. Students develop
Soc Sci	Information Systems			and complete a GIS research project of their own choosing.
			Introduction to conducting business in the international arena, decision making in the organization, and	
			X	globalization of markets and production. Topics covered range from tax and finance to ethics, marketing, and
Soc Sci	International Business			more. Continuing corporate regulatory scandals discussed.
	Introduction to Biological		Х	Evolutionary theory and processes, comparative primate fossil record, human variation, and the adequacy of
Soc Sci	Anthropology		^	theory, and empirical data.
			х	An introduction to the study of the historical foundations of the Chicano/Latino experience. Addresses such
	Introduction to Chicano/Latino			topics as empire, migration, immigrant settlement, economic integration, race, gender, and the formation of
Soc Sci	Studies I			group identities.
				Examines contemporary public policy issues in Chicano/Latino communities. Each offering addresses at least
	Introduction to Chicano/Latino		X	three of the following themes: migration, immigrant incorporation, identity construction, language policy, health
Soc Sci	Studies III			policy, politics, sexuality, gender, labor, class, and education.
				An overview of basic issues that shape the politics of the Middle East and North Africa. Themes include
	Introduction to Contemporary		X	implication of the colonization era, nation-state formation, inter-Arab relations, nationalism, Arab-Israel conflict,
Soc Sci	Middle East Politics			Islamic resurgence, and more.
				An analysis of the problems society faces in organizing itself to provide goods and services. How decisions of
			X	government, business, and the individual relate to current economic problems such as unemployment, inflation,
Soc Sci	Introduction to Economics			poverty, and environmental pollution.
	Introduction to Human		X	Human behavior in a geographical context. Spatial patterns and organization of the cultural, social, and
Soc Sci	Geography			economic activities of man as imposed on and influenced by the earth's physical setting.
6 6 :	Introduction to Race and		X	
Soc Sci	Ethnicity in Political Science Israel and the World: An			Examines major theories that attempt to explain the roles of race and ethnicity in U.S. politics. Examines the founding of Israel, its relationship with the Arab world, the role of the international community,
Ca a Cai		1	X	
Soc Sci	Introduction			and the challenges it faces today. Organization of social life primarily in preindustrial societies. Theories of kinship, marriage regulations, sexual
	Kinship and Social			behavior, and social roles. Comparisons of biological, psychological, sociological, and economic explanations
Soc Sci	Organization		X	
30C 3Cl	Labor Economics and Human	1		of social organization.
Soc Sci	Resources I	1	X	Labor demand, labor supply, human capital, personnel economics, and other topics
300 301	Nesources i	1		Labor demand, labor supply, human capital, personnel economics, and other topics. Examines interconnections between diverse Latino groups in the U.S. and the effects of globalization on their
			×	social, cultural, and political realities. Topics include immigration, demographics, socioeconomic differentiation,
Soc Sci	Latinos in a Global Society	1	^	familial relations, political protest/resistance, law and policy, and links to "homeland" issues.
30C 3CI	Latinos in a Global Society			plantinal relations, political protest/resistance, law and policy, and links to homeland issues.

School	Title	Sustainability Course	Course That Includes Sustainability	Description
				Comparing the political issues facing Latino groups by examining their migration histories, voting behavior,
c c :			X	nonelectoral participation, and policy issues. Latino issues are examined on the national, state, and local levels,
Soc Sci	Latinos in U.S. Politics			including formal representation, immigration, affirmative action, and language policy. Law and its various roles in society. The nature and meaning of law; legality and power in the American system;
İ			X	law as a mechanism for social change; the role of law in dispute processing, social control, compliance with
Soc Sci	Law and Society		^	iudicial decisions.
300 30	Law and Society			Examines the complex relationship between law, the social sciences, and modern society. Lectures explore such
			Х	issues as the interplay between technology and constitutional rights, the impact of science on law, and the
Soc Sci	Law in the Twenty-First Century		X	evolving roles of attorneys and judges.
	Zaw in the twenty thet century			Examines United States policy to combat domestic and international narcotics trafficking. Analyzes the national
İ	Legal Implications of the Drug		Х	drug policy and program implementation by federal and state agencies. Considers the effects of these policies
Soc Sci	Trade			on our individual constitutional rights and the criminal justice system.
				Current problems in U.S. health-care system and proposals for reform. Examines financial barriers to access;
			Х	problem of patient dumping; underinsurance; prenatal and perinatal care; child services; preventative care and
Soc Sci	Medical Sociology			needs of the elderly; minorities; low-income people; undocumented.
	<u> </u>		Х	With anthropological studies of edible things as its foundation, this course explores topics related to the
Soc Sci	Medicine, Food, and Health		^	relationship between medical knowledge, eating, and health from a medical anthropological perspective.
				Focuses on simulations of the foreign policy pursuits of selected countries in the international community.
			X	Emphasis placed on understanding the rules of debate, as well as the policy positions of the student's selected
Soc Sci	Model United Nations			country in the United Nations.
				Sociological perspective on issues related to money and work. Consumption practices and lifestyles, jobs and
			X	organizations, issues of money in intimate relations, marriage, and households, illegal work, discrimination,
Soc Sci	Money, Work, and Social Life			economic globalization are discussed. An exploration of the concepts of identity, culture, ethnicity, race, and nation through ethnographic cases, with a
	Nietieneliene en d'Ethnisia		.,	
6 6 :	Nationalism and Ethnicity in		Х	view to asking larger questions: how do people create nativeness and foreignness? How does "culture" get
Soc Sci	the Contemporary World			worked into contemporary racisms and nationalisms?
İ	Non-Government Organization		.,	Introduction to non-governmental organizations, including their role in U.S. society and the international
Soc Sci	(NGO) Fundamentals		Х	community. Explores varying definitions of NGOs and the characteristics held in common by all NGOs.
300 30	(NOO) Fundamentals			Examines the ideals, social forces, and historical events that gave rise to liberal political theory. Topics include
			Х	patriarchal authority, the divine right of kings, religious toleration, slavery, colonialism, political economy, the
Soc Sci	Origins of Liberalism		X	evolution of law, and tensions between liberty and equality.
	0.1.g 0.1.2.0.4			Through readings about people in distinctly different societies throughout history, students learn concepts that
İ			X	cross the boundaries of the social science disciplines. Such themes as democracy, elitism, power, social class,
Soc Sci	People in Society			and gender are the basis for discussion and writing.
		×		Anthropological consideration of global environmental sustainability from the perspective of human cultures
	People, Cultures, and	^		and communities. Causes and consequences of population growth, natural resource management, environmental
Soc Sci	Environmental Sustainability			law, environmental ethics. Case studies emphasize tropical rain forests, arid lands of Africa and North America.
				Surveys the prehistory of Latin America and its indigenous cultures, emphasizing the impact of colonial rule,
	Peoples and Cultures of Latin		X	capitalism, and twentieth-century transformations. Emphasis on communities from several countries. In some
Soc Sci	America			years, emphasis on comparisons between the Latin American and Caribbean experiences. Examines the cultures and political conflicts of the more than 130 indigenous ethnic groups in the European and
	Peoples and Cultures of Post-		V	Asian territories of the former U.S.S.R. Emphasis is on the theoretical issues of ethnicity, nationalism, and conflict
Soc Sci	Soviet Eurasia		Х	
Soc Sci	Soviet Eurasia			management.

School	Title	Sustainability Course	Course That Includes Sustainability	Description
c c :	D 1 (1) D 16		X	The cultural history and recent developments among the Pacific peoples of Polynesia, Micronesia, Melanesia,
Soc Sci	Peoples of the Pacific			New Guinea, and Australia. Economic aspects of the historical development of the United States-Mexican border. The current economic
	Perspectives on the U.S		X	situation in the Southwest and border areas as it affects both Mexico and the Latino/Chicano population is also
Soc Sci	Mexican Border		^	examined.
300 30	Wexican Border			Utilizes anthropological accounts of Western and non-Western societies to question conventional ways of
			Х	thinking about power and politics. Classical traditions in political anthropology are critiqued; an alternative
Soc Sci	Political Anthropology		,	view is presented through recent anthropological political analyses of various topics.
300 301	Tomacar, with openegy			Political Islamd is a diverse phenomenon. While noticeable barriers exist to "Islamist democracy," it is the
			X	Islamists who will define the political future of much of the Muslim world. Reviews the experience of Saudi
Soc Sci	Political Islam			Arabia, Egypt, Pakistan, Turkey, and Indonesia.
			.,	The ways in which people in various political systems take part in politics, especially in activities directed toward
Soc Sci	Political Participation		X	affecting outcomes. Who is active, what they do, why they do it, and what difference it makes.
	·			Examines animal rights/welfare movement/Es efforts to transform moral, practical, and legal standing of
			X	nonhuman animals in contemporary U.S. Explores intersection of racism, sexism, and speciesism informed by
Soc Sci	Politics of Animal Rights			theories of race and ethnicity, including Asian American Studies.
	Poverty, Growth, and		Х	Examines India as a case study for each of the topics studied: growth experience of India along with its poverty
Soc Sci	Development		^	eradication record, aspects of poverty, and the policies that have been undertaken to tackle poverty.
			X	Introduction to various disciplines within the social sciences. Provides an interdisciplinary perspective on
Soc Sci	Principles in the Social Sciences			understanding human behavior and social institutions, including interpersonal, economic, and cultural activities.
				A survey of models of collective action drawn from sociology, economics, psychology, and political science.
	Protests, Movements, and		X	Focus on areas such as social movements, strikes, crowd psychology, cults, fads, fashions, public opinion, and
Soc Sci	Revolutions			symbolic and mythical elements in collective culture.
Soc Sci	Public Economics I		X	Examines the role of the government in the economy and its impact on individuals and firms.
			Х	Theory of public goods, externalities, voting models, analysis of bureaucracy, the Tiebout model, income
Soc Sci	Public Economics II		^	redistribution, intergovernmental grants.
				Focuses on racial and ethnic relations in the United States and compares them with those found in other
			X	societies. Analyzes the conditions that favor either cooperation and integration or rivalry, tension, and conflict.
Soc Sci	Race and Ethnicity			Appraises strategies for reducing and resolving conflicts. Perfect for pre-health, science and social science majors wanting to appreciate how science and society interact.
6 6 :	D C 1 10:		X	Race and gender as biological and socio-cultural constructs are examined. Questions explored: What is disease?
Soc Sci	Race, Gender, and Science			What is science? What are social and biological differences? Examines central questions and issues in the field of race and ethnicity; the emergence, maintenance, and
	Racial and Ethnic Relations in		V/	consequences of the ethnic and racial stratification system in the United States; the future of racial and ethnic
Soc Sci	the United States		X	relations; and relevant public policy issues.
30C 3Cl	the United States			Geographical analysis of selected regions of California, in particular geomorphological, hydrological, and
	Regional Geography of		X	climatic conditions, as well as economic and social strengths and weaknesses. May include some fieldwork in
Soc Sci	California	1	^	Orange County on environmental, social and residential problems, with legislative background information.
300 30	Camornia	 		Research methods in psychology for majors who wish to fulfill this requirement separately from upper-division
	Research Methods in	1	X	writing. Covers both experimental and descriptive research methods, analysis of results, and reading the
Soc Sci	Psychology	1	^	psychological literature. Research experience is provided in laboratory sections.
555 561	, sychology			postationagical interaction. Rescarcif experience is provided in laboratory sections.
	Revolution and Social		X	Introduces the major political events in MaoÆs communist revolution and the social transformations afterward.
Soc Sci	Transformation in China			Helps students understand the historic and political landscape from which China is now departing.

Soc Sci		Sustainability Course	Includes Sustainability	Description
Soc Sci				Explores ways in which the social sciences conceive of science as a sociocultural practice. Emphasis on literature
Soc Sci	Science, Technology,		X	in Science and Technology Studies (STS), especially writings that concern the relationship of science to space and
	Controversy			place, power, and politics.
				Explores competing views of the character and status of theoretical knowledge in science, including challenges
	Scientific Realism and		X	to and defenses of the view that contemporary scientific theories offer straightforward and accurate descriptions
Soc Sci	Instrumentalism			of how things stand in otherwise inaccessible domains of nature.
			X	Sources, functions, and dynamics of the unequal distribution of wealth, prestige, knowledge, and power in
Soc Sci	Social Inequality			American and other societies.
	Carial Natura des and Carial		.,	Examines the manner in which behaviors/attitudes of individuals are affected by their network ties to others. How
	Social Networks and Social		X	are peoples' opportunities and well-being increased/decreased by their social networks? May include studies in
Soc Sci	Support			mental/physical health, job seeking, separation and loss, and aging. An introduction to the basic theories and principles of public policy. Students examine various influences on the
			V	development of public policy and the principle actors in the process, and learn to identify tools and techniques
Soc Sci	Consider Deliana and Dublic Consider		X	
50C 5Cl	Social Policy and Public Service			employed in policy making. Focuses on how institutional and organizational features of societies generate problems for people. Particular
			X	attention directed at a set of problems related to political and economic inequality: poverty, racism, sexism,
Soc Sci Social Problems	Social Problems		^	urban and population problems, the environment, the criminal justice system.
	Social Flobleris			Examines the effects of religious beliefs, belonging, and institutions on social dynamics, including class, gender,
			X	and racial stratification, politics, and social movements. Additional topics: the sociological significance of
Soc Sci	Sociological Lens on Religion		^	conversion, commitment, and secularization/sacralization.
300 301	30ciological Lens of Religion			conversion, commitment, and securalizations acranization.
			Х	Introduction to sociology of age, aging, and the aged. Problems posed by aging population. Life course
Soc Sci	Sociology of Aging		^	transitions and how social organizations influence the life course. Addresses work, health, and family in later life.
00000	- coacing gy c. 7.g.i.ig			Explores complex processes contributing to social construction of gender and sexuality in the U.S. with focus on
			X	intersection of gender, race, ethnicity, sexuality, and class; evaluates how men and women are differentially
Soc Sci	Sociology of Sex and Gender		,,	constituted in family, education, work, politics, media, language.
	3,			The state of the s
			Χ	Provides an introduction to and overview of the sociology of sex and sexuality. Considers the social meanings of
Soc Sci	Sociology of Sexuality			sex and sexuality, the social contexts of sex and sexuality, and the social regulations of sex and sexuality.
				How do economists explain the process of economic development during the past three centuries? How has the
	The Industrial Revolution in		X	process of industrialization affected living standards? In focusing on these questions, students will learn how to
Soc Sci	Western Europe			apply economic theory and quantitative methods.
	The International Relations of		X	Surveys various aspects of relations between the nations of East Asia. Topics include the historical development
Soc Sci	East Asia			of the region; current political and security relations, including the impact of the American military presence.
				How the Internet works. Current public policy issues concerning the Internet. Introductory economics.
			X	Communications law. Interactions between information technology, economics, and law. Case studies about
Soc Sci	The Internet and Public Policy			Internet and communications policy. Investigates the nature, scope, and status of scientific knowledge and the methods used to acquire it. Uses
Ca a Cai	The Netwee of Coloraticalia		X	concrete historical examples from a variety of scientific fields to identify distinctive features of the scientific
Soc Sci	The Nature of Scientific Inquiry			enterprise and explore their significance. Examines the Civil Rights, Black Power, and womenÆs movements in relationship to the Asian American
			V	movement. Uses social movement theories to illuminate the cases, and the cases to critique and revise the
Soc Sci	The Politics of Protest		X	theories.
300 301	me rollics of Frotest			Does the Congress do a good job of representing the American citizenry? Is it the most appropriate mechanism
Soc Sci	The United States Congress		X	for the creation, resolution, and implementation of public policy?

			Course That	
		Sustainability	Includes	
School	Title	Course	Sustainability	Description
3011001	Title	Course	Sustamability	Examines the movement of people across national borders, governmentality and the role of state practices to
			Х	control populations, and issues of citizenship, belonging, and identity. Examples are drawn from the United
Soc Sci	Transnational Migration		^	States, Europe, Latin America, Asia, and Africa.
	3			Examines the theory of compellence and the U.S. practice of coercive diplomacythe power to change behavior
			Х	of other governments. Specific case examples: the Cuban missile crisis, bombing of North Vietnam, the
Soc Sci	U.S. Coercive Diplomacy			Nicaraguan Contras, Desert Shield/Desert Storm, and Libya.
	1 1			Looks at changing international perspectives, policy responses, and military strategies of presidential
	U.S. Foreign Policy I:		Х	administrations from Truman to Reagan. In assessing the motives and objectives of U.S. foreign policy leaders
Soc Sci	Globalism and Cold War			during the ôCold Warö era, the concept of ônational interestö is examined.
				Examines selected immigration policy debates since the nineteenth century, rationale and consequences of
			Х	immigration law since 1965, problems of administration, implementation and enforcement, impact of
Soc Sci	U.S. Immigration Policy			immigration policy on foreign relations, and contemporary debate regarding the future of U.S. policy.
				Students examine the historical, social, political, and economic factors that contributed to the construction of
			X	the American urban context, one that is poverty concentrated and racially/ethnically segregated. Students also
Soc Sci	Urban America			critically assess the consequence of growing up in America's urban neighborhoods. Cultural roles of urban centers and processes of urbanization in comparative perspective, focusing on both
			X	nonwestern, nonindustrial societies of past and present; the relationship between modern urban centers and
Soc Sci	Urban Anthropology			Third World peoples. Migration, urban poverty, in Africa, Asia, Latin America.
Soc Sci	Urban Economics I		X	Why cities exist, economics of urban land-use, housing demand and tenure choice, traffic congestion.
Soc Sci	Urban Economics II		X	Housing policy analysis, urban public goods and services, crime, pollution, urban amenities.
				Examines economic limits of cities and welfare policy. Addresses such issues as why are the poor concentrated in
			Х	the central cities? Which anti-poverty programs will work best in cities? Which level of government can best
Soc Sci	Urban Politics and Policy			combat poverty in the U.S.?
				Survey of general geographical principles and facts on a world scale, as well as introduction to the broad
			Х	regional and resource geography of the U.S., emphasizing in particular the interactions of physical and cultural
Soc Sci	US & World Geography			factors.
				History of consumption and production of coffee over the centuries, and coffee's cultural, economic, social,
			X	political consequences. Coffee's social life as a drug, symbol of hospitality, religious rite, sociability and
Soc Sci	World of Coffee	_	100	bourgeois lifestyle, commodity, source of livelihoods, imperial revenues, corporate profits.
	Total Social Sciences	7	108	l se la sea the brate and Mause and the U.S. with an dealer for a the sea of a thought and the U.S.
				Explores the history of Mexicans in the U.S. with particular attention paid to their integration into the U.S.
C : E	Cl: M		X	capitalist economy. Examines this economic history and the Chicano movement, "El Movimiento," within the
Social Ecology	Chicano Movement			wide context of socio-economic change. Examines theories, research, and major issues of relevance to understanding social psychological processes in
				Chicano/Latino populations. Topics include social development, cultural orientations, gender and sexuality,
	Chicano/Latino Social		X	close relationships, happiness and well-being, stereotyping, prejudice and discrimination, and mental and
Casial Faalassu				
Social Ecology	Psychology			physical health. Explores the role of cities in transforming global diets: how urbanization has shaped what and how we eat, and
Social Ecology	Cities and Food	X		what the co-evolution of diets and city life portend for the future.
Social Ecology	Cities and FOOd			Examines the social context of high-crime communities, with special emphasis on the problems of poverty,
			Х	joblessness, economic inequality, and racial discrimination. Assesses debates on the causes of these problems,
Social Ecology	Community Context of Crime		^	and on the most effective policies to combat them.
Jocial Ecology	Community Context of Crime	+		Introduction to cultural ecology and environmental and architectural design. Addresses the understanding of
	Cultural Ecology and		Х	peopleÆs relationships with their built environments, the basic elements of architecture, architectural analysis,
Social Ecology	Environmental Design		^	and cultural analysis are covered. Examines values in design and design for multicultural societies.

			Course That	
		Sustainability	Includes	
School	Title	Course	Sustainability	Description
				Reviews culture contact and colonization, innovation diffusion, acculturation, assimilation, culture conflict and
	Culture Change and the		X	marginality, modernization, urbanization, legal transformations. Mexico and the Southwestern U.S. are reviewed
Social Ecology	Mexican People			through several centuries to better appreciate the indigenous base of the Mexican people. Drug abuse in the U.S.; the psychopharmacology of various drugs; biological, psychological, and sociological
	Drugs, Crime, and Social		X	explanations for drug abuse. Policy issues are discussed; students will develop and defend a set of strategies for
Social Ecology	Control			limiting harm done by drugs and drug laws. Basic elements of environmental design such as scale, proportion, rhythm, color, sound, lighting, surfaces,
	Elements of Engineers at all			
6 . 1 5 . 1	Elements of Environmental		X	texture, architectural definition of spaces, volumes, massing volumetric analysis, solids and voids, and cultural
Social Ecology	Design			aspects of design. Excitement and creativity in design, imageability. Development patterns, including urbanization, can contribute to environmental hazard severity. Humans can
	Environmental Hazards in an		V	plan, mitigate, and prepare to reduce costly hazard losses. Students learn about environmental hazards and
Casial Faalasu			X	
Social Ecology	Urbanizing World			human response to these threats. Environmental law as a combination of traditional legal principles and newly created statutes, rules, and
			X	decisions applied to environmental protection. Investigates roles of courts, legislature, executive branch and
Social Ecology	Environmental Law and Policy		^	administrative agencies, and private citizens attempting to regulate environmental quality.
30ciai Ecology	Environmental Law and Folicy			Provides an introduction to sustainability from different points of view; historical, scientific, political, ethical, and
Social Ecology	Environmental Sustainability I	X		economic.
Social Ecology	Environmental Sastamasmity i			Investigates how sustainability can be implemented in a variety of contexts including water, energy, non-
Social Ecology	Environmental Sustainability II	X		renewable resources, biodiversity, and urban policy, and also how it could be measured.
30Clai Ecology				Examines how people encode, reason about, and remember social information and explores how biases and
	Error and Bias in Social		X	shortcomings in social perception, judgment, and memory are central to understanding both effective social
Social Ecology	Judgement			functioning and many forms of maladaptive behavior and social conflict.
				A social ecological framework for understanding community health is presented. Measures of individual and
	Foundations of Community		Х	community health are compared, and the influence of personal and environmental factors on individual, group,
Social Ecology	Health			and population health is examined. Community health promotion strategies are discussed.
- 0,				Examines the legal system's use of sex as an organizing characteristic, focusing particularly on sameness and
			Х	difference feminism, and tracing the evolution of equal treatment of men and women in the areas of
Social Ecology	Gender and Social Control			constitutional rights, employment, education, and military service.
	Global Poverty and Inequality		Х	Explores a multidisciplinary understanding of poverty and inequality in the 21st century and assesses impact of
Social Ecology	in the 21st Century		^	education, health, technology, and other interventions. Course offered online only.
				Examines research and theories concerning the physical and mental health of U.S. Latino populations.
			X	Contemporary accounts, health care implications, and new directions for understanding sources of risks and
Social Ecology	Health and the Latino Paradox			resilience for health in Latino populations are evaluated and discussed.
				Considers social and economic aspects of health and disease in the United States. What are the proper roles of
			X	the individual, community, and government in improving health and health care? International comparisons will
Social Ecology	Health Policy			be made wherever possible.
				Human development in diverse cultures (e.g., Asian, American, and African). Special emphasis on East-West
	Human Development and		X	contrasts and when East meets West (i.e., Asian-American experiences). Topics include parenting, family
Social Ecology	Cross-Cultural Perspectives			relations, language and cognition, schooling and academic achievement, and morality.
0 . 1 5	ļ., ₅ ,	X		Explores the interaction of social choice and physical constraint in shaping the earth's human carrying capacity,
Social Ecology	Human Ecology			including ramifications for local, regional, or global environmental issues. Examines immigration and crime in the global context, highlighting immigrants as criminals and victims;
			.,	
C:-1 E !	Investigation at 10:		X	immigration and crime control; immigrantsÆ perceptions of the criminal justice system; public discourse and
Social Ecology	Immigration and Crime			public perception on immigration and crime; and human rights issues.

School	Title	Sustainability Course	Course That Includes Sustainability	Description
Social Ecology	International Divided Cities		×	Investigates urban divisions in international cities where deep-seated nationalistic ethnic differences create pressures for intergroup conflicts, autonomy, or territorial separation, and can incite violence. Urban political polarization as it is manifest in the urban setting.
Social Ecology	Introduction to Environmental Analysis and Design		X	Overview of general concepts, theoretical principles, and analytical techniques for investigating environmental systems. Integrates tools from natural and social sciences to analyze contemporary environmental challenges such as pollution, resource acquisition, facility and ecosystem design, impact assessments, formulation of environmental policy.
Social Ecology	Introduction to Urban Studies	х		Introduces the substantive areas, concepts, and tools in the field of urban studies. Acquaints students with physical, environmental, social, economic, and political dimensions of cities. Examines the challenges facing cities, including poverty, sustainability, development, globalization, and others.
Social Ecology	Latino Metropolis		Х	Explores the processes of Latino urbanization in the United States and the spatialization of Latino identities, particularly in the context of Southern California with selected comparisons drawing from other cities.
Social Ecology	Latinos and the Law		×	Examines a range of theoretical, empirical, and policy approaches to legal issues affecting the Latino population, with emphasis on California. Discusses topics concerning the purpose of law, the creation of law, and the enforcement of law.
Social Ecology	Law and Inequality		Х	Various aspects of the law as related to three specific areas of inequality: immigration and immigrants, race, and gender. The role of law as a tool of social reform and limitations of the legal system historically in resolving linequality issues.
Social Ecology	Law and Modernity		Х	The rise and spread of Enlightenment legal traditions, social contract theory, individual rights, ideologies of "liberty, equality, fraternity"; contradictions of liberal law, its understandings of "primitive" and "civilized"; pervasive myths of property, difference, race, and rights. Reading- and writing-intensive.
Social Ecology	Legal Sanctions and Social Control		Х	Examination of criminal sanctions as mechanisms of social control. Includes the nature, function, and organization of courts as sanction generating institutions, and problems associated with punishing white-collar and corporate illegalities.
Social Ecology	Moral Development and Just		Х	A three-quarter sequence exploring interpersonal, personal, and social issues based on principles of tairness and justice. Both the living environment of a University residence hall and selected institutions of society are analyzed in terms of moral development theory.
Social Ecology	Nuclear Environments		Х	Understanding the impact of the nuclear age on the environment and human health through interrelated developments of nuclear power and nuclear weapons. The early years of weapon development, catastrophic environmental pollution, perils of nuclear power in the U.S. and Russia.
Social Ecology	Poverty in Developing Countries		Х	Focuses on poverty in developing countries. Analyzes the magnitude and changing nature of poverty in the global south. Critically examines poverty conceptualized in terms of economic deprivation, well-being, and social exclusion.
Social Ecology	Power, Constructions of Deviance, and Social Control		Х	Examines the forms and limits of power in the construction of social deviants. Theories of state power are covered to understand the prison system as a contemporary driver of social inequality. The collateral consequences of mass incarceration are discussed.
Social Ecology	Public Policy Analysis		X	Examines different approaches to the analysis of public policy, what constitutes good policy, the role of government, and citizen participation in policy-making. Suggests a policy-design perspective which builds upon other frameworks but concentrates on goals, implementation structures, tools, and rationales.
Social Ecology	Public Policy and Management		Х	Exposes students to best management practices that assure effective planning and implementation of policies and programs in government, business, and nonprofit sectors. Includes guest lecturers who are proven leaders in four principal institutions of community: business, education, government, and nonprofit.
Social Ecology	Race and Incarceration		Х	Examines the racial politics of mass incarceration through historical, empirical, theoretical, and legal frameworks. Focuses on race, gender, and sexual differences to develop a critique on policing, incarceration, and other forms of punishment.

			Course That	
		Sustainability	Includes	
School	Title	Course	Sustainability	Description
				Provides a historical and sociological survey of racial and ethnic group relations in contexts of crime control,
	Race, Ethnicity, and Social		X	emphasizing the roles of racial ideology, structural racism, and social movements in shaping these dynamic
Social Ecology	Control			relations, and their significance to American liberal democracy.
				Overviews evidence linking environmental factors to mental and physical disorders including such variables as
			X	socioeconomic status, income inequality, work stress, job loss, social capital, location, and other demographic
Social Ecology	Social Epidemiology			characteristics. Measurement and research design issues of both individual and aggregate levels.
				Introduction to the techniques of statistical analysis in Social Ecology. Topics include probability, statistical
1	Statistical Analysis in Social		X	inference, significance testing, univariate descriptive statistics, and multivariate analysis from an interdisciplinary
Social Ecology	Ecology			perspective.
				Discussion of gender identity development and examination of gender differences and similarities across the life
ĺ			X	span. Consideration of the biology and psychology of gender in relation to physical, behavioral, personality,
Social Ecology	The Psychology of Gender			and intellectual capabilities.
ĺ				Introductory course organized around a variety of assignments to encourage learning by design in a studio
	Urban Design and Graphics		X	setting. Students work on design projects and graphic representation assignments to learn practical aspects of
Social Ecology	Studio			urban design. Introduction to principles of urban design and its applications. Study of contemporary and traditional theories
			×	of urban design formulated to improve physical characteristics of built environment to facilitate an enhanced
Social Ecology	Urban Design Principles		^	quality of life. A variety of case studies are discussed.
30ciai Ecology	Orban Design Finciples			Examines why and how urban policies are enacted and carried out in contemporary U.S. cities and regions.
			X	Topics include evolution and organization of city governments and policymaking over the past century; who
Social Ecology	Urban Public Policy			directs public policy and controls how cities develop.
				Overview of theoretical, substantive, and policy issues in urban sociology. History of urbanization, the school of
			X	human ecology, and recent trends regarding urbanism. Time is devoted to understanding the causes and
Social Ecology	Urban Sociology			possible solutions to urban problems.
				Examination of contemporary water problems worldwide, with particular attention to the competing water
		X		demands in the western U.S., and water demand by the poor in developing countries. History and analysis of
Social Ecology	Water Resource Policy			U.S. water policies at local, state, and federal levels. Effects of employment and unemployment on mental health and marital quality; effects of work on parenting and
				child development; corporate and social policies for "families that work"; young adults' decision-making about
Social Ecology	Work and Family		Х	work and family.
30Clai Ecology	Work and Family			work and family.
		6	40	
	Total Social Ecology		40	
	Total Social Ecology			
				Critically reimagines the research endeavor and its participants/outcomes. Grapples with methods, values, and
	Doing Research in the		X	relationships involved in research. Explores alternative conceptions of research; focus is community-based.
U/U	Community			Students work in teams on real-world community research projects with faculty mentors and community partners.
				Three-quarter series on civic education theory, the civic mission of higher education, and community-based
			X	action research methods. Provides students with a solid grounding in civic education theory while also creating
U/U	Engaged Leadership			opportunities for students to practice civic habits.
			X	Introduces students to an examination of how race is "made" in America and the consequences of this
U/U	How Race Is Made I			construction through a variety of lenses: historical, legal, anthropological, sociological, and pop culture.

School	Title	Sustainability Course	Course That Includes Sustainability	Description
	Introduction to Civic and		Х	Provides a foundation for understanding the role of public scholarship, civic engagement, and social action, and the relationship between service learning and engaged citizenship. Introduces key theoretical and research
U/U	Community Engagement		Λ	methodologies on the traditions and innovations of civic and community engagement.
	, , ,			Introduces Earth as a system and living planet. Examines physical and biological resources as well as energy,
	Introduction to Global	X		water, climate, and ecosystems. Introduces and applies analytic lens of environmental, social, and economic
U/U	Sustainability I			sustainability to examine human impacts and resource use.
				Campus projects with a University department to enrich academic growth and development as well as academic
U/U	Ctudent Perticipation		Х	growth and development of UCI. Includes 30 hours per quarter working on proposed project under faculty/staff supervision. Paper required.
0/0	Student Participation			Study abroad on an approved program. Complete critical reflection (written paper, blog, etc.) submitted no
	Study Abroad Experiential		Х	later than the end of the guarter following the completion of the study abroad program. Enroll while studying
U/U	Learning		Λ	abroad or the quarter immediately following return.
			X	Introduces students to water as a global and contested resource across space, time, and peoples from a
U/U	Water I			scientific, historical and policy perspective. Wherever possible, examples are drawn from the local environment.
			Х	Introduces students to water as a global and contested resource across space, time, and peoples from a
U/U	Water III			scientific, historical and policy perspective. Wherever possible, examples are drawn from the local environment.
		1	0	
	T-+-111/11	ļ.	8	
	Total U/U			Presents a wide variety of concepts, materials, tools, and fabrication techniques vital to art production. Wood
			Х	tools, clay, castable rubber, urethane foam, fiberglass, plaster, steel, and welding are introduced. Projects are
Arts	3D Methods and Materials		Λ	based on conceptual problems incorporating these materials. Materials fee.
				Introduction to historical and theoretical foundations of digital media art, tracing how information technologies
	Art, Design, and Electronic		X	seeded growth of new expressive medium. Considers how today's pervasive digital culture evolved through
Arts	Culture			interdisciplinary collaborations between artists, engineers, scientists, scholars.
				An overview of current practice and research in digital media art. Examines the effects of recent technological,
	Art, Science and Society: Steam		X	scientific, cultural, and political developments. Addresses the increasing overlap of artistic and scientific
Arts	to Steampunk			practices and issues related to new and emerging technologies. An introduction to the arts in general, and to the arts at UCI. Concentration on (1) the interdisciplinary nature of
A ====	ArtsCore		X	
Arts	ArtsCore			the arts, and (2) the content of particular arts disciplines. The practice of sculpture in the contemporary arts; inclusion of spatial interventions, site-specific and
			X	environmental design, appropriation of found materials; techniques in cutting joining, and assembly of wood,
Arts	Basic Sculpture		Λ	metals, and plastics. May include casting, welding, and ceramics.
				Surveys critical thought that has influenced twentieth-century art production, preparing the student to engage
			Х	contemporary art with a critical eye, specifically addressing aesthetic and political debates of the historical avant-
Arts	Critical Aesthetics			garde, the neo-avant garde, and postmodern culture.
				Provides students with basic skills in materials, construction and design applicable to making machines, musical
	6		X	instruments and things with moving parts enabling work in kinetic sculpture, custom interactive systems,
Arts	Gizmology and Kinetics			Mechatronics, Robotics, and Maker/DIY culture. Introduces contemporary neuroscience and new approaches to cognition u embodied, enactive, extended,
				situated, distributed. Reviews the history of related ethological, biological, psychological, technological, and
			X	philosophical traditions. Considers arts and cultural practices from these and other perspectives, and considers
Arts	Intelligences of Arts			case studies.
71 to	intenigences of Arts	İ		case studies.

		Sustainability		
School	Title	Course	Sustainability	Description
				Further investigation of the use of clay as a medium, with an emphasis on experimental practice and the
	Intermediate Ceramic		X	relationship to contemporary visual art. Emphasizes discussion of ideas, and provides information on clay body,
Arts	Sculpture			fabrication, glazing, and firing.
				Media and migration are profound, twinned influences on contemporary globalized experience. A discourse on
	Issues in Media and Migration:		X	Asian cultural production and of its transnational dimensions. Students will explore migration in its multiple
Arts	Asia			facets to include migrations of people, ideas, and technologies.
				How do art interventions in public spaces inform our definition of "place" and develop culturally informed
			X	audiences? Students will engage in class projects and group investigations that question the traditional and
Arts	Place Making and Public Art			institutional conceptual boundaries of exhibition/distribution.
		0	11	
	Total Arts			

Graduate Courses

			Course That	
School	Title	Sustainability Course	Includes Sustainability	Description
Arts	Total Arts	0	0	
Bio Sci	Topics in Systems Biology		Х	Studies in selected areas of Systems Biology.
Bio Sci	Research in Ecology and Evolutionary Biology		X	Individual research with Ecology and Evolutionary Biological faculty.
			Х	Advanced study in areas not represented by formal courses. May involve individual or small group study through
Bio Sci	Graduate Tutorial in Ecology and Evolutionary Biology		•	reading, discussion, and composition. Statistics for ecologists and evolutionary biologists. Emphasis on specific applications and underlying assumptions
			×	rather than on methods of calculation. Topics include experimental design, parametric and nonparametric methods,
Bio Sci	Quantitative Methods in Ecology and Evolutionary Biology		^	analysis of variance and covariance, and multiple regression.
BIO SCI	edutificative methods in Ecology and Evolutionary Biology			Content and instructor will vary from quarter to quarter. Possible topics include quantitative genetics, experimental
			X	methods of evolutionary studies, mathematical modeling in evolutionary studies, and the evolution of genetic
Bio Sci	Advanced Topics in Evolutionary Biology			systems.
			Х	Content and instructor will vary from year to year. Possible topics include coevolution, sex-ratio evolution,
Bio Sci	Advanced Topics in Ecological Genetics			senescence, plant population biology, and density-dependent selection.
Bio Sci	Advanced Topics in Ecology		Х	Weekly discussion of current topics in ecology at the graduate level.
Bio Sci	Topics in Microbial Ecology		X	Weekly discussion of current topics in ecology, biogeochemistry, evolution, and physiology of microbial organisms.
bio sci	Topics III Wild obtail Ecology			Investigation of plant diversity in California and throughout the world, including basic systematic concepts,
		X		introduction to major groups of flowering plants, and the effects of global biological change on plant diversity.
Bio Sci	Plant Diversity in a Changing World			Students carry out a phylogenetic analysis using appropriate software.
				Prospective elementary teachers learn how to teach science in grades K-8. Covers States science requirements, a
			X	variety of teaching methods, criteria for selecting science curriculum materials, and how to plan science lessons,
Bio Sci	Curriculum and Methods for Elementary School Science			units, experiments, projects, and demonstrations.
D: C:	5 1 1 15 1 2 5 1 2		X	A summary of information in organismal biology, comparative and ecological physiology, and the biophysical basis
Bio Sci	Ecological and Evolutionary Physiology			of organismal function. Course offered every other fall.
			X	Development of effective communication skills, oral and written presentations. Topics range from the art of creating
Bio Sci	Science Communication Skills		^	keynote slides to strategically crafting a personal story, culminating in a live presentation to an invited audience.
				Explore the dynamics of populations on an ecological, epidemiological, and medical level. Considers the dynamics
			X	of competition, predation, and parasitism; the spread and control of infectious diseases; and the in vivo dynamics of
Bio Sci	Evolutionary and Ecological Principles in Medicine			viral infections and the immune system.
Bio Sci	Topics in Evolutionary Genetics		Х	Weekly discussion of recent research on evolutionary genetics.
D: C:			X	Provides a summary of information on plant organismal biology, comparative and ecological physiology, and
Bio Sci	Plant Physiological Ecology			functional ecology. Offered every other fall. Explores experimental evolution, which is now a well-established part of evolutionary biology. With the advent of
Bio Sci	Experimental Evolution		X	genomics, it is now one of the most powerful tools for studying the genetic foundations of biology.
210 001	Experimental Evolution			Focuses on the role of chromatin/nuclear structure organization (histone and DNA modification, chromatin
			X	remodeling, higher order chromatin structure and nuclear organization) on gene regulation, DNA replication and
Bio Sci	Epigenetics in Health and Disease			repair, relevant to development, metabolism, learning and memory, and human disease.
	Total Bio Sci	1	16	
				Examines the consumer decision-making process with an emphasis on application of concepts and research findings
			X	from behavioral sciences for solution of marketing problems. Includes models of consumer decision-making,
Business	Consumer Behavior			information processing theories, and sociological influences on consumer decision-making.
			X	Provides an overview of US health policy with a particular emphasis on current policy developments and debates.
Business	US Health Policy			Students will be introduced to the basic tools of policy analysis and will apply them to health policy issues.
D i	During Duranis		X	Enhances students' analytical skills by analyzing complex challenges that businesses face and to quickly implement a
Business	Business Dynamics		1	winning response. Introduces students to the tools and strategies to effectively match supply and demand. Focuses on the
			X	coordination of material and information flows in supply chains. Recent innovations are also discussed, including
Business	Supply Chain Management		^	globalization, the impact of electronic commerce, and sustainability issues.
				Edge explores the crucial roles of external forces - globalization, technology, shifting demographics - as
			X	transformative catalysts for change - opening markets, erasing boundaries, and transforming industries. This course
Business	Edge			prepares future business leaders to innovate and compete successfully.

		Sustainability	Course That Includes	
School	Title	Course	Sustainability	Description
				Designed to introduce students to the intellectual principles of ethical decision making by emphasizing the theories
	Edit to A and the desired		X	of ethics and their application in the business, and specifically, accounting professions. MPAC capstone course with
Business	Ethics in Accounting and Business			a final comprehensive exam for the program.
	Total Business	0	6	
				Research on comprehension, conceptual understanding, reasoning, critical thinking, and problem solving with
1	Design of Learning Environments for Teachers in Secondary		X	applications to pedagogy in secondary school subjects. Required for M.A.T. single subject students, unless
Education	School Subjects			substitution of Education 207 is authorized.
				Explores issues of learning and development through a cultural lens. The interplay between culture and learning and culture and development is analyzed through the discussion of relevant readings from both psychological and
Education	Learning, Development, and Culture		X	anthropological research traditions.
Education	Learning, Development, and Culture			An in-depth study of topics relevant to educational reform and policy-making. Topics include: the policy-making
			X	process, the role of values and interest groups, policy analysis, equality of educational opportunity, systemic reform,
Education	Educational Policy and Politics		Α	implementation, and politics at the school site.
				Introduction to how social, political, and economic forces impact college access and persistence in the U.S. higher
l			X	education system. Investigates historical perspectives and theoretical underpinnings of college access and retention
Education	College Access and Persistence			research and the link between Kû12 schooling and postsecondary stratification.
İ			X	Focuses on Asian, Latino, and Black children of immigrants. Investigates how today's second generation adapts,
			^	incorporates into the U.S. social structure, transforms the social and economic landscape. Explores assimilation,
Education	Immigration and the New Second Generation			immigrant families/communities, language, racial/ethnic identities, gender, education, changing U.S. racial structure.
				Provides a critical understanding of the social and cultural foundations of education through reproduction theory.
E 1			X	Explores the unique ways in which culture and power intersect within schools and schooling systems to reproduce
Education	Social and Cultural Foundations of Education			and resist educational inequality. Methods for creating healthy environments for student learning in elementary schools. Introduction of California
			X	content standards and frameworks with appropriate pedagogy. Personal, family, school, community factors, and
Education	Health Principles and Practices for the Elementary Teacher		^	legal responsibilities of teachers. Academic, physical, emotional, and social well-being.
Education	Treatilitiniciples and tractices for the Elementary reacher			Considers the historical, cultural, and structural processes that contextualize American schooling. In particular,
Education	The History and Culture of Schooling in the United States		X	examines the roles of race, class, and gender in the context of public education in the United States.
			х	Creation of healthy environments for student learning in secondary classrooms. Personal, family, school, community,
	Creating a Supportive & Healthy Environment for Student			environmental factors. Academic, physical, emotional, social well-being of students. Legal responsibilities of
Education	Learning in Secondary Classrooms			teachers related to student health, safety. Communication with family and use of community resources. Survey of the history of and social theories about the origins and consequences of U.S. racial, gender, and social
			X	inequality, and the effects of poverty and racism on the educational opportunities and outcomes of minority groups
Education	Culture, Diversity, and Educational Equity		^	in the United States.
Eddeation		0	10	in the Officed States.
	Total Education	0	10	
				Engineering of physiological function at the scale of individual cells. Topics include cell micropatterning, microfluidic
Engineering	Microscale Tissue Engineering			tissue culture, engineering the cellular microenvironment, and microphysiological systems. Advanced analysis, optimization, and modeling of transportation networks. Topics include advanced static and
			V	dynamic traffic assignment algorithms, linear and nonlinear multi-commodity network flow optimization, network
Engineering	Urban Transportation Networks II		X	simplex, and network control problems.
Lingilieering	Orban manaportation retworks in			Introduction to operation, control and analysis of arterial and freeway traffic systems. Control concepts, traffic
			X	stream principles, detectors, local controllers, system masters, traffic signal and ramp metering timing principles,
Engineering	Traffic Systems Operations and Control I			traffic measurement technologies, traffic delay principles.
<u> </u>	,		Х	Introduction of state of technology, costs and benefits, environmental issues, and implementation issues related to
Engineering	Desalination		X	desalination. Emphasis on membrane processes and biofouling prevention.
			Х	Microbes in the environment and their impact on human interactions. Microbiological application in solving
Engineering	Applied Environmental Microbiology		^`	environmental engineering problems.
				Application of systems theory in hydrologic, land surface, biogeochemical modeling. Design, identification, and
			X	calibration of conceptual models. Principles of dynamic systems, modeling approaches, theory of linear systems,
F==:===:	Andrein of Hudralania Conta			mathematical concepts of differential calculus, theoretical concepts of parameter estimation and optimization
Engineering	Analysis of Hydrologic Systems		-	theory. Green energy sources for production, transmission, storage, and utilization of electricity, with a special focus on
		X		solar, wind, and nuclear energy production. Study of newly developed renewable sources of energy including capital
Engineering	Energy Efficiency	^		cost, product cost, environmental issues, and technical feasibility.
Linginieering	Lineral Emoletics	l .	l .	reast, product cost, crimoninental issues, and technical leasibility.

		Sustainability	Course That Includes	
School	Title	Course	Sustainability	Description
Engineering	Hydrology		х	Elements of the hydrologic cycle including precipitation, infiltration, evapotranspiration, ground water, and runoff. Unit Hydrograph theory and routing methods. Introduction to precipitation/runoff relationship and watershed modeling. Statistical methods and flood frequency analysis. Discussion section covers advanced topics.
Engineering	Low Power SoC Design		X	From an inverter to server centers, low-power design theory and practice in modern systems-on-chip (SoC), energy efficient design time and runtime methods are surveyed at circuit, RTL, and architecture levels. Lab assignments will help students quantify tradeoffs and design practices.
Engineering	Carbon and Energy Footprint Analysis		Х	Process design for wastewater treatment. Mass- and energy- balance analysis applied to water and wastewater treatment systems. Case studies include analysis of water supply, treatment, reclamation, and reuse. Design and application of comprehensive transportation models. Network development, demand modeling, and
Engineering	Transportation Planning Models II		X	equilibrium assignment. Model calibration, validation, prediction, and evaluation. Regional modeling, site impact analysis, and circulation studies. Design of transportation alternatives.
Engineering	Travel Demand Analysis I		х	Fundamentals of transportation systems analysis. Theoretical aspects of travel demand. Travel behavior. Modeling of performance characteristics and costs of transportation modes. In-depth presentation of travel demand modeling techniques. Development of travel choice models including mode, route, and destination choice. Equilibrium.
Engineering	Travel Demand Analysis II		Х	Methods of discrete choice analysis and their applications in the modeling of transportation systems. Emphasis on the development of a sound understanding of theoretical aspects of discrete choice modeling that are useful in many applications in travel demand analysis.
Engineering	Travel Demand Analysis III: Activity-based Approaches		X	The methodological underpinnings of activity-based travel demand modeling. Presents methodologies within the context of a generalization of discrete choice modeling approaches, emphasizing the distinctions that separtate these two approaches and presenting appropriate mathematical and statistical tools to address these distinctions. Introduction to mathematical methods and models to address logistics and urban transportation problems.
Engineering	Transportation Systems Analysis I		X	Techniques include stochastic models, queueing theory, linear programming, and introductory non-linear optimization.
Engineering	Transportation Systems Analysis II		Х	Advanced mathematical methods and models to address logistics and urban transportation problems. Topics include network flows, advanced optimization techniques, network models, and heuristic algorithms. Planning methods for public transportation in urban areas. Technological and operating characteristics of vehicles,
Engineering	Transit Systems Planning		X	facilities, and systems. Short-range planning techniques: data collection and analysis, demand analysis, mode choice, operational strategies, financial analysis. Design of systems to improve performance.
Engineering	Transportation Systems III: Planning and Forecasting		Х	Theoretical foundations of transportation planning, design, and analysis methods. Theory and application of aggregate and disaggregate models for land use development, trip generation, destination, mode, and route choice. Transportation network analysis. Planning, design, and evaluation of system alternatives. Statistical analysis of transportation data sources. Analysis of categorical and ordinal data. Regression and
Engineering	Transportation Data Analysis I		Х	advanced multivariate analysis methods such as discriminant analysis, canonical correlation, and factor analysis. Sampling techniques, sample error and bias, survey instrument design. Analytical approaches and algorithms to the formulation and solution of the equilibrium assignment problem for
Engineering	Urban Transportation Networks I		Х	transportation networks. Emphasis on user equilibrium (UE) comparison with system optimal, mathematical programming formulation, supply functions, estimation. Estimating origin-destination matrices, network design problems.
Engineering	Traffic Systems Operations and Control II		Х	Advanced topics related to operation, control, and analysis of arterial and freeway traffic systems. Control concepts, traffic stream principles, detectors, local controllers, system masters, traffic signal and ramp metering timing principles.
Engineering	Advanced Biological Treatment Processes		X	Analysis of biological processes in natural and engineered systems. Biological treatment processes, both aerobic and anaerobic, with emphasis on suspended growth systems including design consideration. Containment degradation or control covered. Includes laboratory on molecular tools used in wastewater treatment.
Engineering	Physical-Chemical Treatment Processes		Х	Theory and dynamics of physical and chemical separation processes in water and wastewater treatment. Topics include coagulation, sedimentation, filtration, gas transfer, membrane separations, and absorption. Water and wastewater procedures are processed to proceed the processes and expenses and processes and expenses are expenses and expenses and expenses are expenses and expenses and expenses are expenses and expenses and expenses are expenses and expenses and expenses are expenses and expenses and expenses are expenses and expenses are expenses and expenses are expenses and expenses are expenses and expenses are expenses and expenses and expenses are expenses and expenses are expenses and expenses are expenses and expenses are expenses and expenses are expenses and expenses are expenses and expenses are expenses and expenses are expenses and expenses are expenses are expenses and expenses are expenses are expenses and expenses are expenses are expenses and expenses are expenses are expenses are expenses and expenses are expenses.
Engineering	Drinking Water and Wastewater Biotechnology		Х	Water and wastewater microbiology. Engineering principles, molecular aspects, and overview of microorganisms of importance to public health. Topics include aerobic and anaerobic wastewater treatment and disinfection of pathogens in water, wastewaters, and biosolids. Topics include conservation of fluid mass, storage properties or porous media, matrix compressibility, boundary
Engineering	Groundwater Hydrology		X	conditions, flow nets, well hydraulics, groundwater chemistry, and solute transport. Includes introduction to advanced topics in porous media. Design projects and computer applications included.

			Course That	
		Sustainability	Includes	
School	Title	Course	Sustainability	Description
				Basic principles of hydrologic modeling are practiced. Concepts of watershed delineation, land use change impact,
	M		X	design studies, and GIS tools are discussed. Focus on the USACE (HEC) software tools (HEC-HMS and HEC-RAS)
Engineering	Watershed Modeling			along with their associated GIS interfaces. Irend analysis; statistical indices for diagnosing and detecting changes in extremes; nonstationary processes;
			X	extreme value analysis; multivariate extreme value methods; tail dependence estimation; uncertainties in observed
Engineering	Climate Data Analysis		^	and projected changes in climate extremes.
Linginieering	Cililate Data Allalysis			Linear wave theory. Wave properties: particle kinematics, energy propagation, shoaling, refraction, reflection,
			X	diffraction, and breaking. Wave statistics and spectra. Selected topics from: design of coastal structures; harbor
Engineering	Topics in Coastal Engineering			engineering; littoral transport and shoreline morphology; and hydrodynamics of estuaries.
<u> </u>	, ip is a second of the graph o			Process description, mathematical and numerical modeling of transport processes in surface and ground water.
			X	Topics include advection, molecular diffusion, Taylor dispersion, mechanical dispersion in porous media, shear flow
Engineering	Hydrologic Transport Fundamentals			dispersion in channels, and turbulent jets and plumes.
	·			Fundamentals of fluid motion in open channels. Navier-Stokes equations and one-dimensional momentum and
			X	energy principles. Topics include rapidly varied flow, flow resistance and turbulence, gradually varied flow, unsteady
Engineering	Fluid Mechanics of Open Channels			flow, and computational methods for channel flow modeling.
1				Computational modeling of multi-dimensional flow and scalar transport problems in surface and ground water.
I			Х	Topics include mathematical model formulation, numerical method selection, serial and parallel implementation,
Engineering	Hydrologic Computational Modeling			model verification and validation.
			X	Advanced topics in reaction engineering, reactor stability analysis, diffusional effect in heterogeneous catalysis,
Engineering	Reaction Engineering			energy balance, optimization of reactor operation, dispersed in phase reactors. Introduces basic concepts of nuclear chemistry and focuses on chemical engineering aspects of the nuclear power
F : :			X	industry. A broad survey of the nuclear fuel cycle (uranium processing, reactor concepts, spent fuel treatment and
Engineering	Chemistry and Technology for the Nuclear Fuel Cycle			repositories) will be given. Introduction to engineering electrochemistry fundamentals and applications. Examine thermodynamics and
İ	Engineering Electrochemistry: Fundamentals and		X	transport principles in typical electrochemical systems. Electrochemical sensors, batteries, fuel cells, and
Engineering	Applications		^	supercapacitors. Manufacturing aspects will also be covered.
Liigineering	Applications			Space propulsion requirements and maneuvers, stressing those best suited to electric propulsion. An introduction
			X	to plasma physics. Electrothermal, electromagnetic and electrostatic accelerators, with emphasis in technologies
Engineering	Electric Propulsion		,	(ion engines, Hall thrusters and colloidal thrusters) belonging to the latter family.
Linginiconning	2.oct.ic.r.opaision			Introduction to electrochemistry and electrocatalysis; artifue of tuel-cell electrodes and electrolytes; charge transfer
			X	reactions at interfaces; charge transport and mass transport processes; fuel processing reactions; determination of
Engineering	Fuel Cell Fundamentals and Technology			fuel cell efficiency, fuel flexibility, emissions and other characteristics.
				Fuel cell systems design; impacts of operating conditions; experimental and theoretical analysis methods for fuel
			X	cells systems; introduction to degradation mechanisms and mitigation techniques; provides broad insight into fuel-
Engineering	Fuel Cell Systems and Degradation			cell science, technology, system design and operation. Offered every other year.
				An in-depth introduction to the fundamentals of PEM fuel cells, including thermodynamics, kinetics, and transport in
			X	electrochemical systems. Topics of specific interest to mechanical engineers will include water/heat management and
Engineering	PEM Fuel Cells			dynamic responses.
				Pollutant formation and experimental methods. Formation of gaseous pollutants and soot; transformation and
			Х	emission of fuel contaminants in gas, liquid, and solid fuel combustion; methods employed to measure velocity,
Engineering	Advanced Combustion Technology			turbulence intensity, temperature, composition, particle size; methods to visualize reacting flows.
		.,		Basic principles, design and operation of sustainable energy systems including wind, solar photo-voltaic and
F : :	C	X		thermal, hydroelectric, geothermal, oceanic, biomass combustion, advanced coal and next generation nuclear.
Engineering	Sustainable Energy Systems			Includes power generation, storage, and transmission for stationary power generation.
	Total Engineering	2	37	
				Examines the interrelations between history, theory, and race in the aftermath of the twentieth-century decolonial
			X	movements, offering an account of race through postcolonial and postnationalist approaches in comparative
Humanities	Contemporary Issues in Asian American Studies			contexts. Considers the interventions made by transnational feminist and racialized queer critiques.
				An introduction to contemporary literary theory focusing on important critical approaches; topics vary from year to
Humanities	Contemporary Literary Theory and the Classics			year.
				Examines ways in which Classical texts and ideas have been received and appropriated for the diverse purposes of
Humanities	Diachronic Perspectives on Classical Antiquity			ancient and subsequent cultures.
				An introduction to the methods and perspectives of social scientific theory which can be used to study the material
Humanities	Greece and Rome in Their Contemporary Cultural Contexts			and social dimensions of the ancient cultures of Greece and Rome.
				Addresses both theories and the complex history of literary and cultural expression in a national, trans-, inter-, and
11 22	Theories of Globalization, Inter-Nationalism, and		X	post-national, global frame. Topics may include: globalism and nationhood, theories of citizenship and political
Humanities	Postcolonialism			subjecthood, postcolonial literature and theory.

School	Title	Sustainability Course	Course That Includes Sustainability	Description
Humanities	Feminist Knowledge and Social Change		Х	Provides a broad and introductory overview of WomenÆs Studies and feminist knowledge, including key concepts, theoretical frameworks, disciplinary approaches and methods, and critical debates that have shaped the field.
Humanities	South Asia			Studies in literatures and interpretations of South Asian history.
	Total Humanities	0	3	
	Current Issues Related to Tropospheric and Stratospheric		×	Examination of current issues related to the atmosphere, including energy usage; toxicology; effects on humans, forests, plants, and ecosystems; particulate matter (PM10); combustion; modeling and meteorology; airborne toxic
Phys Sci	Processes			chemicals and risk assessment; application of science to development of public policies. Explores past, present, and projected changes in Earth's climate. Topics include paleoclimate records and mechanisms of natural climate variability at a range of timescales (orbital to seasonal); General Circulation Models;
Phys Sci	Climate Change	Х		and IPCC observations and projections of future climate change. Introduction to the physics, chemistry, and biology of the oceans. Offers a mechanistic perspective of the structure
Phys Sci	Ocean Processes		X	and functioning of marine ecosystems, nutrient cycles, and role of ecosystem dynamics in local and global biogeochemistry.
Phys Sci	Atmospheric Chemistry and Physics		Х	Examines the physical/chemical processes which determine the structure and composition of Earth's atmosphere and its role in the climate system.
Phys Sci	Global Biogeochemical Cycles		X	Global biogeochemical cycling of the elements. Topics include global cycling of carbon, nitrogen, oxygen, and sulfur; impact of human activities on biogeochemical processes.
Phys Sci	Plasma Physics		X	Magnetic confinement, MHD equilibrium and stability, collisional transport.
Phys Sci	Global Physical Climatology		Х	A descriptive overview of EarthÆs climate system and energy budget. Large-scale circulations, key physical processes, and climate sensitivity of the atmosphere, ocean, land surface, and cryosphere.
Phys Sci	Global Climate Change and Impacts	Х		Observations over the 20th century show extensive changes in atmospheric composition, climate and weather, and biological systems that have paralleled industrial growth. Evidence of globally driven changes in these biogeochemical systems is studied, including projected impacts over the 21st century.
-		Х		Presents an overview of marine ecosystem structure, diversity, and processes in the context of global change, including the impacts of climate warming, ocean acidification, marine fisheries, and anthropogenic additions of
Phys Sci	Marine Ecosystems and Global Change			nutrients and pollutants. Examines the major components of the EarthÆs cryosphere. Characteristics, volume, extent, remote sensing
Phys Sci	Ice in the Climate System		X	observations, long-term trends, mass balance, key physical processes, relevance and importance to the climate system, responses and feedbacks, future evolution, and key uncertainties will be discussed.
	Total Physical Sciences	3	7	
Social Science	Anthropology of Food		Х	Course examines the role of food in culture history and in anthropological thinking about ethnocentrism, disgust, privilege, gender, race, identities, social relationships, kinship, social hierarchies, globalization, production, consumption, food scarcities, body image, health, and power.
Social Science	Transnational Migration		Х	Examines borders and boundaries as material and semiotic constructs. Drawing upon an array of literatures, but loosely situated in U.S. geo/biopolitics, explores transformative troublings of places, spaces, borders, and bodies of all sorts.
Social Science	Economic Anthropology		Х	Classic and contemporary theory in economic anthropology. Case studies: Latin America (primarily Mexico and the Andes), Africa, and the Pacific. Substantive topics: non-market exchange, markets and marketplaces, households, gender, management of common property (fisheries, pastoral lands, forests), labor, and development. Historical and contemporary approaches to the world economy, emphasizing anthropological questions of culture,
Social Science	Approaches to Globalization		Х	power, identity, inequality. Examines "neo-imperialism," "late capitalism," accumulation, global markets, urban space, the state, business and policy globalization discourse, "local" responses to and instantiations of the "global."
Social Science	Latinos/Latinas and Medical Care: Contemporary Issues		Х	Introduction to medical anthropological and social science perspectives on Latinos/Latinas in relation to a number of health and medically-related issues, i.e., immigration, gender, reproduction, culture, social structure, political economy, sexuality, utilization of medical services, and health beliefs.
Social Science	Macroeconomic Theory II		Х	Advanced macroeconomic theory including alternative macroeconomic models, microeconomic foundations of macroeconomics, investment and growth theory, inflation and unemployment, rational expectations and macroeconomic policy, wealth effects, crowding out and fiscal policy, money and interest, open economy models.
Social Science	Business Cycles in Historical Perspective		х	Investigates business cycles in the United States and worldwide during the last two centuries. Topics include causes and consequences of business fluctuations, monetary and fiscal policy, models of fluctuations, and empirical macroeconomics.

	Course That					
		Sustainability	Includes			
School	Title	Course	Sustainability	Description		
				Focuses on American economic history from colonization onwards. Topics include the development of legal systems,		
C : 1C:	A		X	transport systems, financial markets, industrialization, migration, immigration, technological change, and the		
Social Science	American Economic History			consequences of slavery. Surveys recent issues on monetary policy in uncertain environments. Examines settings where both the policy makers		
Social Science	Monetary Economics II		X	and the private sector are uncertain of future outcomes or the underlying economic structure.		
Jocial Science	Information (Continued in			Students build Dynamic Stochastic General Equilibrium (DSGE) macroeconomic models from microeconomic		
			X	foundations. This approach emphasizes intertemporal optimization by firms and households and typically		
Social Science	Advanced Macroeconomics I			incorporates nominal rigidities such as sluggish price and/or wage adjustment.		
				Prepares students to analyze public policy questions with tools from economics. By the end, students should be able		
			X	to identify important economic issues in public policy debates and consume and critique economic research on these		
Social Science	Economics of Government			topics.		
			X	Economic reasons for the existence of cities, analysis of urban spatial structure, urban sprawl, Third World		
Social Science	Urban Economics I			urbanization, hedonic price analysis, housing tenure choice. Housing in the portfolio, land-use controls, rent control, homelessness, neighborhood effects, urban quality-of-life		
Social Science	Urban Economics II		X	measurement, and subcenters.		
Social Science	Orban Economics II			Applies microeconomic concepts of demand, costs, pricing, investment, and project evaluation to analyze		
Social Science	Transportation Economics I		Х	transportation activities. Empirical studies include travel demand using discrete models, and cost functions.		
				Examines theoretical approaches to the explanation of the pattern of participation and consideration of the results		
			Х	of empirical studies of such activity by mass publics (mainly in Europe and North America). Addresses issues in both		
Social Science	Political Participation			comparative politics and political behavior.		
	·			An examination of central questions and issues in the field of race and ethnicity through a critical analysis and		
			X	discussion of the principal theoretical perspectives and paradigms that have framed much of the scholarship in the		
Social Science	Race and Ethnicity			area.		
			Х	Theoretical and empirical approaches to the study of social and economic inequality, with special attention to		
Social Science	Inequality			race/ethnicity, class, and gender. A survey of the field of Social Movements, oriented around critical themes in the major theoretical traditions and		
Casial Caianaa	Social Movements		X	contemporary exemplars.		
Social Science	Social Movements			Major perspectives in the sociology of culture. Topics include the role of cultural dynamics in the reproduction of		
			X	inequality, collective action, political and organizational decision making, emotional experience, and the social		
Social Science	Sociology of Culture			impacts of new technologies.		
oo ciai ocioneo	country of culture			The study of the causes and consequences of international migration has become one of the most vital fields of		
			X	sociological theory and research. Examines principal theoretical perspectives and empirical research on		
Social Science	Immigrant America			contemporary immigration flows and the processes of incorporation.		
				Examines immigration to three leading immigrant-receiving nations: the United States, Canada, and Australia, as		
			X	both cause and consequence of globalization. Specific attention to Asian migration, as well as assimilation and its		
Social Science	Immigration and Globalization			relationship to multiculturalism.		
				Advanced macroeconomic theory including alternative macroeconomic models, microeconomic foundations of		
			X	macroeconomics, investment and growth theory, inflation and unemployment, rational expectations and		
Social Science	Macroeconomic Theory I			macroeconomic policy, wealth effects, crowding out and fiscal policy, money and interest, open economy models.		
Social Science	Macroeconomic meory i			Examines social scientific understandings of natural contexts and human milieus via a survey of key analytic		
			X	categories. Begins by examining historical and ongoing definitions and problems organized around ônatureö and		
Social Science	Natures and Environments		^	ôenvironmentö as separate but imbricated concepts.		
				Theoretical microeconomics. Emphasis on the meaning and empirical interpretation of theoretical models. Topics		
			X	include theory of the firm, theory of the market, theory of the consumer, duality theory, application to econometrics,		
Social Science	Microeconomic Theory III			general equilibrium and welfare economics, uncertainty, game theory.		
				Covers theoretical models, empirical methods, and policy issues in international trade. Following the conventional		
			X	treatment of the Richardian model, the Heckscher-Ohlin model and the specific factors model, new trade models		
Social Science	International Trade I			which incorporate scale economics and imperfect competition will be discussed.		
C:- C-:	Torono matrico Forgonia II		X	Economics of the airline industry. Hub-and-spoke networks, the effects of competition on airfares, price dispersion,		
Social Science	Transportation Economics II			airline alliances, airport congestion, product unbundling.		
			X	Before the course begins, students choose a published empirical economics article and obtain the necessary data to		
Social Science	Replication and Applied Economics Writing		^	replicate it. Students will replicate and extend the economic analysis and write a paper describing their work.		
22231 00:01:00	properties and approach accommod thrilling			Introduces the interrelationships between population and social organization. Considers measurement and		
			X	explanation of historical and contemporary trends in birth rates, death rates, migration, and marriage and divorce.		
Social Science	Population		1	Case material is drawn primarily from the U.S. and other industrialized nations.		

School	Title	Sustainability Course	Course That Includes Sustainability	Description
	Total Social Sciences	0	29	
	Total U/U	0	0	
ICS	Information Technology in Global Sustainability	Х		Explores the relationship between recent developments in information technology and the global transition to sustainability. Topics include the role of IT systems in the provision of human needs and wants (e.g., smart grids, food systems, and other IT-enabled infrastructure).
ICS	Theories of Information Society		×	Social and economic conceptions of information technology. Macrosocial and economic conditions that foster changes in information technologies. Social construction of information and computer technology in professional worlds. Theories of information technology and large-scale social change.
	Total ICS	1	1	
Public Health	Foundations of Public Health		Х	Presents the overarching framework, principles, and core responsibilities of public health research and practice from a multidisciplinary perspective. Provides necessary foundation for further studies toward advanced cross-cutting approaches essential for public health practice. Presents descriptive and experimental approaches to the recognition of the causal association of disease in the
Public Health	Graduate Epidemiology in Public Health		X	general populations, as these approaches apply to populations using different student designs and models from the literature.
Public Health	Advances in Social Epidemiology		×	Advances understanding of social distribution and social determinants of disease through multiple risk factor models and mechanisms that emphasize developmental and socio-environmental risk factors on mental and physical health across the life span.
Public Health	International Epidemiology		×	Explores methodological approaches in the literature on international trials and requires formulation of proposals to answer public health questions of interest in a developing country setting. Students develop case study aims, ideal teams, and budget in an international context.
Public Health	Surveillance Systems		х	Surveillance as a fundamental element of the practice of public health is examined in terms of the application and evaluation of monitoring systems. Topics include surveillance of infectious and chronic diseases, environmental constituents, and other indicators of population health.
Public Health	Theories of Health Communication		х	Explores the concepts, constructs, and theories of communication in health and risk contexts. Examines interpersonal, family, organizational, and mediated communicative processes about health care and conditions from a global perspective.
Public Health	Health Status and Care Disparities		Х	Expert health care providers present viewpoints and interdisciplinary strategies for addressing sociocultural, economic, gender, age, and other disparities in population health status and care provision. Introduces composite measures of disease burden, including Disability Adjusted Life Years and their use in
Public Health	Global Burden of Disease		Х	prioritizing disease burden at local, regional, and global levels. Focuses on WHO's landmark assessments and introduces DISMOD software for specific analyses.
Public Health	Infectious Disease Epidemiology		х	Geographical distribution of infectious diseases and the health and disease risk in diverse human populations. Introduces basic methods for infectious disease epidemiology and case studies of important diseases. Includes surveillance, outbreak investigation, emerging pathogens, traditional and molecular epidemiology.
Public Health	Ethics and Responsible Conduct of Research in Public Health		х	Issues of scientific integrity and satisfies the requirements for training in public health ethics. Includes guidelines for responsible conduct of research, federal and international codes, administrative review and approval, conflict of interest, and privacy and safety of research participants.
Public Health	Fundamentals of Maternal and Child Health - Programs, Problems, and Policy		X	Overview of issues facing women, children, and families from a public health perspective. Discusses role of socio- economic, political, biological, environmental factors on population health. Studies historical foundations and current factors impacting Maternal Child Health programs and legislation in the US.
Public Health	Advanced Geographic Information Systems and Spatial Epidemiology		×	Students expand their current knowledge of the ArcGIS software to develop advanced geographic-related research questions, learn how to apply spatial epidemiologic methods to public health data, and integrate their skills in a GIS project of their design.
Public Health	Target Organ Toxicology II	×		Mechanistic analysis of responses occurring in various organ systems of experimental animals and humans exposed to environmental and occupational chemicals and radiation. Review of distinctive cellular and tissue structure and physiological function of the various organ systems.
Public Health	Target Organ Toxicology I	Х		Mechanistic analysis of responses occurring in various organ systems of experimental animals and humans exposed to environmental and occupational chemicals and radiation. Review distinctive cellular and tissue structure and physiological function of the various organ systems.
Public Health	Geographic Information Systems for Public Health		х	Provides a broad introduction to the use of Geographic Information Systems software to carry out projects for visualizing and analyzing spatial data to address significant issues of health care and policy-planning.
Public Health	Industrial Toxicology		Х	Analysis of responsibilities toxicologists have in industry, including product safety, generating material safety, data sheets, animal testing, ecotoxicological testing, risk/hazard communication, and assisting industrial hygienists and occupational physicians; emphasis on interdisciplinary nature of industrial toxicology and communication skills.

School	Title	Sustainability Course	Course That Includes Sustainability	Description
	Total Public Health	2	14	
				Increases understanding of crime, violence, and the criminal justice system. Assesses the state of knowledge on key
			X	policy issues of our time. Discusses the contribution of communities, schools, employment, drugs, guns, and alcohol
Social Ecology	Public Policy, Crime, and Criminal Justice			to crime and violence.
				Capstone course for M.A.S. program in Criminology, Law and Society. Students choose a social problem related to
			X	crime, criminal justice, and law; relate the problem to legal and social issues; and devise a plan of action to research
Social Ecology	Social Problems, Law, and Policy			the problem. Origins and organization of racialized social control, with emphasis on criminal justice. Racial politics of
			×	criminal/juvenile justice considered in comparative (historical and international) perspective. Exploration of
Social Ecology	Race, Ethnicity, and Social Control		^	theoretical and methodological issues for research on race, ethnicity, and social control.
Social Ecology	Ruce, Ethinaty, and Social Control			Introduction to the historical roots and fundamental perspectives of urban and regional planning. Exploration of
			X	the significant historical phases and personalities which have shaped the profession. The roles and responsibilities,
Social Ecology	History of Urban Planning			the limitations and potential, of urban planning.
				Intellectual excursion into central themes in policy and planning, including philosophy of the market,
			X	institutionalization of space, hypostatizations of policy, constructions of communities, logics of spatial analysis.
Social Ecology	Theoretical Foundations of Planning			Objective is engagement of the professional in thoughtful reflections on practice and institutions. Graphic representation and communication of physical place characteristics, design and physical planning ideas and
				concepts using a variety of graphic techniques of free hand drawing, sketching, orthographic representations, scale
Social Ecology	Design and Planning Graphics: Fundamentals		X	drawings, 3D representations, maps, photo-documentation, and various media.
30ciai Ecology	Design and Flamming Graphics. Fundamentals			Provides students with a working knowledge of basic microeconomic concepts. Emphasizes applications related to
			X	urban planning and policy analysis. Topics covered include demand analysis, firm behavior, market structure, public
Social Ecology	Microeconomic Analysis for Urban Planning		^	goods, externalities, and the role of economics in land markets.
				Introduces current topics in transportation planning. Includes an analysis of the economic role of transportation in
			X	urban areas, land-use impacts of transportation projects, traffic congestion, air quality, alternatives to the
Social Ecology	Transportation Planning			automobile, and other transportation topics.
			X	Introduces students to the basic statistical concepts used to address issues of public concern. Prepares students to
Social Ecology	Quantitative Analysis for Planners			perform, interpret, and evaluate quantitative data analyses commonly used in professional studies. Emphasizes the development of analytical techniques proven useful in the fields of management and administration.
			×	Topics include multiple regression, cost-benefit analysis and discounting, decision trees, and other techniques useful
Social Ecology	Analytical Methods for Planning		X	for the purposes of community analysis and planning.
Social Ecology	Analytical Methods for Flamming			Explores different approaches to public policy analysis, the diverse conceptions of the goals and objectives that
			X	should be served by policy, and the appropriate role of the policy analyst. Policy consequences are traced to
Social Ecology	Public Policy			indirect and subtle incentives and disincentives.
				Reviews and critiques literature on discussion topics including: the nature and effectiveness of environmental
		X		movements and policies; the role of science and technology; the use of economic incentives in policy;
Social Ecology	Environmental Politics and Policy			decentralization of decision making; and creating arenas for public involvement.
0 15 1	T		Х	Critically evaluates how transportation can promote sustainable, healthy, and equitable cities. Examines the
Social Ecology	Transportation and Environmental Health Geographic Information Systems (GIS) Problem Solving in			interaction of transportation systems with urban form, land use, community health, and environmental quality. Explores the application of geographic information systems (GIS) in urban planning. Steps through a GIS-based
Social Ecology	Planning		X	planning procedure that balances housing, jobs, tax base, utilities, transportation, and the natural environment.
Social Ecology	Training			Application of Geographic Information Systems (GIS) to the field of urban and regional planning. Emphasizes
			X	current issues that occur in actual implementation settings. Lecture/discussion followed by laboratory demonstrating
Social Ecology	Introduction to Geographic Information Systems			the area of GIS discussed. Offers "hands-on" student usage of GIS software.
				Introduction to contemporary and traditional theories of urban design and their applications. Organized around
			X	one question: How might planning and design of built environment contribute to making a good city? National and
Social Ecology	Urban Design Theories and Applications			international case studies are introduced.
				Multidisciplinary inquiry into theory and practice concerned with delivery, quantity, costs of health care for
Conial England	Health Paligy and Management		X	individuals and populations. Explores managerial and policy concerns regarding structure, process, outcomes of
Social Ecology	Health Policy and Management			health services including the costs, financing, organization, outcomes, and accessibility of care. Examination of the role of public policy in guiding growth and development in urban and suburban environments.
			×	Description of a wide-ranging set of growth policies, the rationales underlying their use, controversies and legal
Social Ecology	Land-Use Policy		^	constraints, and evaluation of their effectiveness.
	,			Examines theories and practices of housing policy and the relationship of housing to larger neighborhood,
			X	community, and regional development issues. Considers the roles of private for-profit and not-for-profit developers,
Social Ecology	Housing Policy			lenders, and all levels of government in the provision of housing.

			Course That	
		Sustainability	Includes	
School	Title	Course	Sustainability	Description
<u> </u>	11.00	554.55	o a b tam tab mity	Critical examines competing conceptualizations, methods of measurement, and poverty alleviation strategies widely
			X	used in developing countries. Focuses on poverty conceptualized as economic deprivation, well-being, vulnerability,
Social Ecology	Poverty and Development			and social exclusion.
				Treatment of legal and policy strategies for promoting environmental protection and deterring environmental
			X	degradation within the context of other societal objectives. Topical approach with a focus on problems of special
Social Ecology	Issues in Environmental Law and Policy			interest to criminologists and to environmental policy specialists.
			Х	Introduction to major themes and debates in environmental ethics, with application to contemporary environmental
Social Ecology	Environmental Ethics		^	issues.
				Examines the spread of cities worldwide in the twentieth century. What are the political and economic causes of this
			X	process? What are the social-cultural, political, and economic effects? How is contemporary urbanization linked to
Social Ecology	Global Urbanization			global restructuring of other kinds?
				Covers how cultures relate to natural and built physical environments. Ways in which culture influences space; ways
			X	space influences culture. Concepts for understanding the interrelationship, including values, norms, traditions,
Social Ecology	Culture, Community, and Space			religion, and place attachment. Culture and cities, urban form, ethnic communities. Introductory urban design for planners. Organized around a variety of assignments to encourage learning by design
				in a studio setting. Students work on design projects and drawing assignments to learn practical aspects of urban
Social Ecology	Urban Design Studio for Planners: An Introduction		X	
Social Ecology	Orban Design Studio for Flanners: An Introduction			design. Introduces students to the current research of faculty, graduate students, and visitors to the Department of
			×	Psychology and Social Behavior. Includes examination of contemporary research issues and controversies, as well as
Social Ecology	Research Directions in Psychology and Social Behavior		^	issues related to students' development as professionals.
Social Ecology	Research Bricedons in Esychology and Social Behavior			Investigates legal and institutional frameworks for development control. Review of constitutional issues implicated in
			X	land-use regulation. Traces development control historically and analyzes contemporary approaches to land-use
Social Ecology	Land Use Law			control which reflect environmental and economic development concerns.
				Examines the challenge of identifying ethical principles that can guide us in formulating and assessing public policy,
			X	the public policy process from an ethical perspective, and the ethics of the individual engaged in the public policy
Social Ecology	Policy and Ethics			arena.
			Х	Examines the legal, political, social, economic, and policy implications of making gender (primarily) and race
Social Ecology	Crime and Gender		^	(secondarily) the focus in the study of crime, criminal law, and the criminal justice system.
			Х	Provides Master of Urban & Regional Planning Students an opportunity to link classroom knowledge with real
Social Ecology	Practice Experience		^	Planning situations through a ten-week unpaid practice experience.
				Evaluates strengths and weaknesses of qualitative and quantitative methods and the data used in making public
			X	policy claims. Looks at the bases of certain widely accepted measures of poverty, growth, environmental quality, and
Social Ecology	Information and Public Policy			the like.
				Explores different approaches to public policy analysis, the diverse conceptions of the goals and objectives that
6			X	should be served by policy, and the appropriate role of the policy analyst. Policy consequences are traced to indirect
Social Ecology	Public Policy			and subtle incentives and disincentives. Introduction to inclusive management. To make effective use of public resources, public managers are inventing ways.
				of managing that alter relationships within organizations, between organizations, between sectors, and with the
Social Ecology	Collaborative Governance and Public Management		X	public. Requires rethinking fundamentals such as leadership and motivation.
Social Ecology				public. requires retrinking futidamentals such as leadership and motivation.
	Total Social Ecology	1	32	

Summary of Courses

	Unde	rgraduate	Graduate Courses	
	_	Courses Including	Sustainability	Including
School	Courses	Sustainability	Courses	Sustainability
Arts	0	11	0	0
Biological Sciences	7	33	1	16
Business	0	6	0	6
Education	0	11	0	10
Engineering	3	38	2	37
Humanities	0	17	0	3
ICS	0	2	1	1
Physical Sciences	29	34	3	7
Public Health	9	20	2	14
Social Ecology	6	40	1	32
Social Sciences	7	108	0	29
Undecided/Undeclared	1	8		
Total	62	328	10	155

Sustainability Courses Total	72
rses that Include Sustainability	483
Total Undergraduate Courses	390
Total Graduate Courses	165
Total Courses	555

Summary of Departments

Sustainability Related Course

School	Departments	Offered
Art	Art	Yes
	Developmental & Cell Biology	Yes
Dialagical Caianasa	Ecology & Evolutionary Biology	Yes
Biological Sciences	Molecular Biology & Biochemistry	Yes
	Neurobiology & Behavior	Yes
Business	Business Management	Yes
Education	Education	Yes
	Biomedical Eng	No
	Chemical Eng and Materials Science	Yes
Engineering	Civil and Environmental Eng	Yes
	Electrical Eng and Computer Science	Yes
	Mechanical and Aerospace Eng	Yes
	African American Studies	Yes
	Art History	Yes
	Asian American Studies	Yes
	Classics	Yes
	Comparative Literature	Yes
	East Asian Languages	No
Humanities	English	No
	European Languages and Studies	Yes
	Film & Media Studies	Yes
	Gender and Sexuality Studies	Yes
	History	Yes
	Philosophy	Yes
	Spanish & Portuguese	No
	Computer Science	Yes
ICS	Informatics	No
	Statistics	No
	Chemistry	Yes
Physical Sciences	Earth System Science	Yes
Triyolcar ociences	Mathematics	Yes
	Physics & Astronomy	Yes
Public Health	Public Health	Yes
	Anthropology	Yes
	Chicano/Latin Studies	Yes
	Cognitive Sciences	Yes
Social Sciences	Economics	Yes
Social Sciences	Linguistics	No
	Logic and Philosophy of Science	Yes
	Political Science	Yes
	Sociology	Yes
	Criminology, Law & Society	Yes
Social Ecology	Urban Planning & Public Policy	Yes
200.09)	Psychology & Social Behavior	Yes
	Social Ecology Core Program	Yes
	Departments Total	45
	Total Departments with Sustainability Course	38