

Department	Course Number	Title	Sustainability Course	Contains Sustainability	Course Description
AFAM	4241	Race, Gender, and the Law		x	This course will explore the ways in which the American legal system has contributed to the shaping of race and gender in American culture.
AFAM	4433	Black Culture and Identities		x	This course focuses on a critical interrogation of notions of blackness and authenticity in racial identification. The course examines constructions and (mis)representations of blackness, mixed race, as well as trans-national expressions of culture, resistance, and self-expression in the construction of family and identities.
AFAM	4642	Sex, Race, and Violence		x	This course examines the issues of sex, race, and violence and their implications for the individual, the family, and the community. Emphasis is placed on the role of socialization and the myths that impact societal attitudes about sex and violence. Students have an opportunity to identify and to explore factors that influence the manifestation of physical violence (including dating violence, child abuse, and domestic violence), and sexual violence (including date rape, stranger rape, and marital rape) across the dimensions of race, ethnicity, and gender.
APAM	4335	Asian Pacific American Politics and Social Movements		x	Examines Asian American political participation from legal challenges and labor organizing to social protests and electoral politics. Explores Asian Pacific American politics and social movements in light of dramatic changes in domestic and international contexts of the past half a century.
ART	305	ARTSmart Community Service Program		x	ARTsmart is the community service program of the Department of Art and Art History. The mission of ARTsmart is to provide underserved youth an education in the visual arts. LMU Art and Art History students work in teams to develop and teach lessons that incorporate formal art issues, art history, visual culture, social justice issues, and standards-based education to students in a neighboring K-8 school. Students from a variety of art disciplines are encouraged to volunteer.
ACCT	4150	Accounting Ethics, Professionalism, and the Public Interest		x	This course examines the role of accountants and the accounting profession in society. Students learn about the history, legal, and ethical responsibilities of the accounting profession. Major ethical theories are introduced and analyzed before applying them to ethical and justice issues that arise in accounting and business practice. Students are encouraged to adopt the objectivity, integrity, and ethical standards necessary to serve society as an accounting professional.
ART	354	Art and Ecology	X		Art and Ecology is a visual arts course inspired by art and science. The course will incorporate readings, site-specific engaged learning opportunities, and contemporary and art historical examples that explore visual art and environmental ethics, culture, sustainability, and resilience. Each semester the class will focus on a different environmental issue while the Creative Experience component will remain the same.
ART	355	Experiencing Art and Social Justice		x	This course is divided into two components: studio arts and service learning. In the studio component, students will create art to explore the relationship between art and social justice. Studio projects include mixed media sculpture, painting, and installation. The students participate in the ARTsmart service-learning program, developing and teaching lessons that emphasize the use of art to incite social change. ARTsmart service time is incorporated into the class hours.
BADM	1040	Business Perspectives-globalization		x	This course is designed to provide freshman or sophomore students with knowledge of the critical aspects of globalization, key trends in the global economy, and build an appropriate educational plan at the early stage of their college years.

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BADM	3020	Economic Environment, Marketing, and Business Law Concepts		x	This is a basic course in economics, marketing, and business law which will give the Business Administration minor student an introduction to the three subjects. After taking this course, the student will be prepared to take more advanced courses in the various subjects covered.
BADM	3040	Management and Society: Issues in Strategic and Ethical Management		x	Management and Society is an introductory course which covers the role of business in our society and the principles of management and organizational behavior. Basic concepts such as the role of management (focused on planning, organizing, leading, and controlling) and theories of organizations will be explored while considering the impact on and involvement of stakeholders, the importance of ethics, influence of business-government relations, issues in corporate governance, and the significance of long-term sustainability.
BADM	4950	Business and Social Responsibility in the Global Economy	x		This is an applied course that focuses on the interactions of business, government, and societal institutions. Particular attention is directed to such topics as economic systems, stakeholder management, political and legislative process, sustainability, and corporate governance. Themes of ethics, social responsibility, and leadership will be emphasized. There are two specific goals: 1) The student grasps the broad issues of corporate social responsibility and 2) The student develops decision making skills needed to lead a corporation to productive solutions.
BIOL	263	Natural History of Southern California		x	Introduction to the geography, climate, plant communities, and common animals of Southern California; animals will be covered in regard to behavior, taxonomy, and ecology.
BIOL	264	The Marine Environment		x	An introduction to marine biology, including its history, different communities and the animals and plants that occur in marine ecosystems, and their economic importance.
BIOL	266	Sacred and Medicinal Plant Use		x	The sacred and medicinal use of plants and hallucinogenic fungi by traditional and modern cultures, including the biological basis for their use.
BIOL	277	Plants and Society	x		An introduction to the natural evolution of plant species and the associated cultural evolution of man's relationship to plants. A multidisciplinary approach to studying the relationship between plants and people. An exploration of plants as sources of food and medicine, commercial products, and the role of plants in preserving and restoring the environment.
BIOL	278	Tropical Marine Ecology	x		Field studies of the tropical marine habitats in Isla Roatan, Honduras. This includes the examination of the ecology and biology of coral reefs, mangroves, seagrass beds, and intertidal communities.
BIOL	309	Applied Plant Ecology	x		An integrative course focusing on the foundational role of plants in ecosystems and how ecological principles and theory can be applied to solving local and global conservation and resource management problems.
BIOL	311	Plant Interactions	x		Study of various ways in which plants interact with other organisms, such as herbivores, pathogens, symbiotic bacteria and fungi, and the outcomes of that interplay. Examination of the physiological, biochemical, and genetic bases of these interactions and how understanding the chemical and molecular communication that takes place has implications for improvement of agriculture and human health.
BIOL	312	Field Botany	x		The identification, distribution, evolution, and ecological relationships of the native plants of Southern California.
BIOL	314	Tropical Ecology	x		An introduction to Neotropical biodiversity, natural history and conservation, as well as an examination of the diversity of tropical species interactions in an international field setting.

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BIOL	315	World Vegetation Ecology	x		Characteristics and distribution of the major vegetation types of the world, emphasizing environmental conditions, plant adaptations and ecosystem processes.
BIOL	316	Island Biology		x	Island biogeography and evolution, dispersal, adaptive radiation, gigantism/dwarfism, flightlessness, reproductive biology, endemism, and relictualism.
BIOL	321	Urban Ecology	x		An analysis of the dynamic and integrated nature of urbanized landscapes. Using active inquiry and the original literature, the course will engage the current theories and practice of the research being conducted on the patterns and process of urban ecosystems-ranging from biodiversity and trophic dynamics, to public health and environmental justice.
BIOL	322	Urban Ecology Lab	x		An inquiry-based investigation into the biophysical and human social dimensions of a local urban ecosystem, with a focus on group project development.
BIOL	328	Tropical Marine Ecology	x		Examination of physical, chemical, and ecological aspects as applied to coral reefs, mangroves, seagrass beds, and intertidal communities.
BIOL	329	Marine Ecology of Baja, California		x	Field studies of subtropical, intertidal and subtidal habitats along the coasts of Baja, California peninsula.
BIOL	353	Plant Physiology		x	Plant function, including photosynthesis, mineral nutrition, water relations, metabolism, and growth processes.
BIOL	355	Plants, Pharmacy, and Medicine		x	The historical, ethnobotanical, and chemical basis of medicinal plant use, plant-based pharmaceuticals, and their physiological efficacy.
BIOL	357	Comparative Animal Physiology		x	Environmental and evolutionary influences on functioning of animals, focusing on mechanisms and strategies utilized by animals to cope with challenges imposed by their biotic and abiotic surroundings.
BIOL	370	Plant Biotechnology	x		Biotechnology is a broad discipline in which biological processes, organisms, cells or cellular components are exploited to develop new technologies. Plant biotechnology employs a wide range of tools, including traditional breeding techniques and genetic engineering, to create plants with improved traits—more productive crops, more nutritious foods, and the production of biomaterials, medicines, and bioenergy. Principles of genetics, molecular biology, genomics, biochemistry, plant cell and tissue culture, and agronomy are employed to develop these novel technologies. We will discuss methodologies used to produce these plants, the genes that have been introduced to crop plants, and commercial product development. The course will also address concerns associated with plant biotechnology, including food safety, ecological risks, and resistance.
BIOL	422	Marine Biology	x		Examination of the physical, chemical, and biological patterns and processes that shape life in the oceans.
BIOL	439	Molecular Biology Applications	x		The application of the techniques employed in molecular biology to the study of inherited diseases, genetic engineering, infectious diseases, cancer, and gene therapy.
BIOL	460	Environmental Microbiology	x		Introduction to the diversity of microorganisms and their role in ecological and environmental processes in soil, water, and air; environmental services provided by microorganisms; and how microbial functions are utilized in managed and artificial systems.

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BIOL	477	Conservation Genetics		x	Survey of the major topics in conservation genetics. Basic models of population genetics and topics relevant to conservation genetics, such as population structure, inbreeding, genetic load, genetic variation, reserve design, and the ethical, moral, and political aspects of species conservation.
BIOL	518	Applied Ecology Research	x		Participation in original laboratory and/or field research in applied ecology, to address questions in conservation, resource management, and ecological sustainability.
BIOL	521	Urban Ecology	x		An analysis of the dynamic and integrated nature of urbanized landscapes. Using active inquiry and the original literature, the course will engage the current theories and practice of the research being conducted on the patterns and process of urban ecosystem—ranging from biodiversity and trophic dynamics, to public health and environmental justice.
BIOL	522	Marine Biology Research	x		An introduction to marine biology research techniques and basic marine ecosystems.
BIOL	528	Invertebrate Conservation Research	x		Participation in research on topics in invertebrate conservation biology. Research may include ecological and/or genetic approaches and methodologies.
BIOL	566	Plant Research	x		Participation in laboratory and/or field research on the ecophysiological response of plants to environmental extremes.
BIOL	569	Ethnobotany Seminar	x		An introduction to the mutual relationships between plants and traditional peoples with an emphasis on phyto medicines and sustainability.
BIOL	571	Conservation Biology Seminar	x		A survey of topics relating to the conservation of animals and plants, including extinction, genetic aspects, demography, insularization, threats to biodiversity, economics and politics, religious and ethical perspectives, and practical applications.
BIOL	585	Issues in Biotechnology Seminar	x		An interdisciplinary seminar series bringing together faculty from different disciplines to present and discuss topics in biotechnology. Examples include sustainable agriculture, advances in medicine and biotechnology, legal and ethical considerations and biotechnology, the environment and biotechnology, the manipulation of biological machinery (proteins), the fusion of engineering and biotechnology (nanotechnology), the business of biotechnology.
BCOR	1910	Business for Good	x		The course is an immersive and interactive experience with the following elements. It involves the major global challenges that you will face in your professional careers, such as poverty and the environment, and brings out the role of business in being a force for good in addressing these challenges as well as in a broad array of issues. It involves a project where you will design a business plan to launch of a product for low-income customers in domestic or international markets, while achieving economic sustainability as well as social and environmental sustainability. It involves doing good as being at the heart of the business rather than as corporate social responsibility. It involves working with companies. And most importantly, it will involve examining your values as it relates to doing good in the professional and personal realms. The course will culminate in a poster session. In short, you will start out your careers by having all of these challenges to confront in your first semester.
BCOR	3860	International Business		X	This course introduces students to international business environments, concepts, and practices. In order to understand complex issues related to global economy, students will learn about national and regional differences in political, economic, and socio-cultural systems. To acquire skills and knowledge necessary for managing international business operations, students will study international trade and investment theories and policies, foreign exchange mechanisms and markets, as well as global strategies in manufacturing, marketing, and human resources management.

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BCOR	4910	Business Ethics and Sustainability	x		Business Ethics and Sustainability focuses on the interaction and importance of social, political, economic and environmental forces in business and society. Using the framework of the UN Sustainable Development Goals, students will study the moral responsibility of business for societal and environmental impacts. Emphasis is placed on applying ethical decision models to a variety of stakeholder issues, which will include a substantial investigation into the underlying normative ethical theories and socio-political factors that impact business' broader responsibilities.
BLAW	2210	Legal and Regulatory Environment	x		A survey course on the general concepts found in Business Law. The student will be exposed to legal, ethics, and regulatory terminology, concepts, and reasoning found when working within the business and government environment.
BLAW	4220	Employment Law		x	This course provides a broad overview of federal and state employment laws, administrative agency regulations, and judicial decisions that govern the management of human resources. It provides a framework for the analysis and implementation of procedures that impact the employer-employee relationship in the workplace. Topics include the rules for proper advertising, screening, interviewing, and hiring of applicants; an analysis of the procedures that shape the training, promotion, discipline, and termination of employees; grievance handling, anti-discrimination laws, employee rights, health and safety regulations leaves of absence, harassment prevention, regulatory compliance, and administrative adjudication of claims.
CATH	3110	Environmental Ethics	x		The study of moral and ethical issues as they relate to the environment and nonhuman nature. Specific topics and foci vary from semester to semester.
CATH	3780	World Religions and Ecology	x		This interdisciplinary service learning course will explore how religious ideas and practices can respond to the contemporary environmental crisis.
CHEM	250	Earth Systems		x	An introductory exploration of how the Earth works. Focus is placed on connecting the Earth systems—the solid Earth, atmosphere, oceans, and biosphere—through the cycling of chemical elements and energy. The course will also discuss significant anthropogenic impacts to the natural Earth system.
CHEM	261	The Science in Science Fiction		x	The physics, chemistry, and biology found in science fiction literature and examined for accuracy and probability. Topics include the physics of space and space habitats, the chemistry and biology of life arising under non-earthlike conditions, and the ecology of imagined worlds. "Engineering" new worlds on the basis of sound scientific theory will be expected. Understanding of physical implications of simple algebraic expressions is required.
CHEM	262	The Chemical Environment	x		The important chemical processes of the world in which we live; air, water, agriculture, food additives, household chemicals, cosmetics, chemotherapy, sports, toxic waste management.
CHEM	270	Frontiers of Science	x		Study of the methods of inquiry used across the disciplines in science. Development of scientific literacy through discussion of important public issues such as energy, medicine, the environment, and climate change.
CHEM	352	Environmental Chemistry	x		A study of chemical processes in the environment: topics include stratospheric ozone depletion, the greenhouse effect, air pollution, sources of energy, water chemistry, water purification, sewage treatment, and pesticides.

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CHEM	354	Air Pollution: Atmospheric Chemistry	x		Introduction to air pollution and the chemistry of the Earth's atmosphere. The fundamental natural processes controlling trace gas and aerosol concentrations in the atmosphere will be explored as well as how anthropogenic activity has affected those processes at local, regional, and global scales.
CHEM	356	Sustainable Practices	x		Discussion of the history of water and energy use in society; analysis of pollution resulting from use of non-renewable energy sources and recent advances in production of renewable and sustainable energy practices; and pollution of water with sustainable practices to provide clean freshwater and appropriate wastewater management.
CHEM	357	Environmental Chemistry: Atmosphere and Climate	x		A study of chemical processes in the environmental. Topics include stratospheric ozone depletion, the greenhouse effect, climate change, air pollution, and non-renewable sources of energy.
CHEM	358	Environmental Chemistry II	x		A study of chemical processes in the environment. Topics include renewable sources of energy, water chemistry, water purification, sewage treatment, pesticides, solid waste, soils and sediments.
CHEM	359	Environmental Chemistry Laboratory	x		Analysis to determine pollutants found in air, water, soil systems; emphasis on the use of instrumental methods and techniques.
CHEM	474	Food Chemistry		x	The chemistry involved in food preparation and development. Examples include flavorings, food additives, what happens when it is cooked, then eaten; nutritional aspects of foods, food supplements, preservation, food fads.
CHEM	482	Toxicology	x		An introduction to the principles of toxicology, emphasizing cellular mechanisms, e.g., cell signaling, mutagenesis, and/or carcinogenesis. Topics will also include dose-response, toxicokinetics, risk assessment, effects of toxicants on the environment, and approaches that can decrease the amounts of toxicants in the environment.
CIVL	302	Seismic Design of Structures	x		Free and forced vibration of discrete single and multiple degree of freedom systems, continuous systems, design for earthquake loading, application of the Uniform Building Code to the seismic design of structures.
CIVIL	310	Fluid Mechanics 1		x	Properties of fluids, fluid statics, kinematics, energy, hydrodynamics, momentum and dynamic forces, steady flow of compressible and incompressible fluids.
CIVL	320	Introduction to Environmental Engineering	x		Introduction to elements of water treatment, water pollution control, solid and hazardous waste disposal, and air pollution control. The interrelationships of the movement of pollutants between the land, air, and water media are discussed.
CIVL	400	Fundamentals of Water and Wastewater Treatment	x		Fundamentals of water and wastewater treatment systems; water and wastewater characteristics, analysis and design and conventional water treatment systems and physical, chemical, and biological processes for wastewater treatment.
CIVL	406	Water Resources Planning and Design	x		Flood control hydrology including rainfall, unit hydrographs, flood frequency analysis and flood routing. Development of surface and groundwater supplies, reservoir yield and operation, determination of water requirements, analysis of water supply and distribution systems.
CIVL	410	Soil Mechanics	x		Physical and mechanical properties of soil, consolidation, settlement of structures, shear strength, analysis of earth pressures, bearing capacity, slope stability, flow through porous media, and open-ended design problems.

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CIVL	411	Design of Foundations and Earth Structures	x		Design methods for foundations and earth structures. Design of footings and piles including stability and settlement, slopes, and retaining structures.
CIVL	460	Civil Engineering Design, Practice and Ethics	x		An integrated senior design experience which utilizes knowledge from the civil engineering curriculum. In addition to the technical aspects, the designs consider costs, sustainability economics, and environmental factors. Class lectures include discussion of the design process, environmental impact, engineering and professional ethics, the engineering profession, professional practice issues, the role of the engineer in the construction process, and procurement of engineering work. Student project reports and presentations are required.
CIVL	501	Sustainable Water Quality and Resources	x		This course introduces fundamental water quality and resources topics in the context of sustainability. Topics include introductions to aquatic interactions and fates of pollutants in natural environments; watershed protection and stormwater management for surface and groundwater supplies; sustainable management of groundwater supplies; recycled water production and uses; water quality; and water and wastewater treatment systems.
CIVL	517	Water Treatment Processes	x		Theory and practice of the physical and chemical treatment processes to treat water and wastewater including reactor performance, screening sedimentation, membrane and media filtration, adsorption, ion exchange, disinfection. Theory and practice of biological treatment of wastewater including activated sludge, attached growth systems, oxygen transfer, secondary clarification, nutrient removal, residuals stabilization and dewatering, natural treatment systems.
CIVL	518	Water Reuse and Desalination	x		Wastewater reuse and desalination are key components of future water supply systems. This course covers processes used for water reuse and membrane treatment systems. The objectives include understanding: 1) the rapidly expanding wastewater reuse market; 2) advanced treatment processes required for reuse; and 3) the roles and characteristics of membrane systems for treatment of water and wastewater along with desalination for seawater and brackish water. Existing reuse and membrane treatment systems are studied to understand how individual processes are integrated to meet the water quality objectives and treatment requirements for different applications.
CIVL	519	Advanced Integrated Water Treatment Systems	x		Integrated design of water and wastewater treatment facilities from site and process selection, site layout, hydraulics, flow and material balances, pumping, odor control, and chemical feed systems. Includes the design of additional processes such as ozonation, air stripper, ion exchange, adsorption, nutrient removal, etc.
CIVL	513	Solid Wastes Engineering	x		An application of current technology in the collection, control, disposal, and recovery of value from solid wastes.
CIVL	515	Industrial Waste Management	x		Principles and methods of treatment and disposal of industrial wastes that may adversely affect the environment, including general characterization of wastes from industries of major significance and typical treatment processes involved. Regulatory constraints.
CIVL	526	Surface Water Hydrology	x		Study of the elements of the hydrologic cycle, rainfall, streamflow, infiltration, evapotranspiration, snowmelt, hydrographs, probability, river and reservoir routing, runoff determination using the rational method and hydrograph methods.

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CIVL	525	Groundwater Hydrology and Sustainable Management	x		Groundwater is base for our environmnet and looking specifically at california understanding groundwater is heavily managed through a judicious balance between municipal, agriculture, and environmental interests. Studies include the engineering thats goes into extraction, replenishment, and protection and sustainable methods to optimize techniques
CIVL	526	Groundwater Contaminant Transport and Remediation	x		Groundwater is an important factor of our livlihood. Focuses on the transport of inorganic and organic contaminants in groundwater
CIVIL	527	Urban Water Systems and Stormwater Management	x		Overview of the theory and practical applied hydraulic design in an urban setting. Topics include potable water conveyance facilities with pump stations and reservoirs; storm water conveyance systems including pipe, street gutter, storm drains, and culverts. Emphasis is placed on the design Low Impact Development (LID) biorentention, and other facilities for regulatory compliance and sustainability, as well as on the application of modeling software used in practice.
CIVL	531	Principles of Water Quality Management	x		Review of the basic parameters used to describe water quality. Fundamentals of aquatic interaction in natural systems and fate of pollutants in the natural environments. Basic water and wastewater treatment systems.
CIVL	538	Construction Management and Sustainability	x		Course provides students with an introduction to construction management and sustainable building practices and rating systems including CALGreen and Leadership in Energy and Environmental Design (LEED).
CIVL	546	Geotechnical Earthquake Eengineering		x	Introduction to engineering seismology and earthquake ground motions. Evaluation of dynamic soil properties, seismic site response analysis, soil liquefaction evaluation and mitigation, seismic slop stability, and seismic evaluation of dams and embankments.
CIVL	547	Dams and Levees	x		Evaluation of geotechnical, hydrology, and hydraulic components for the design and evaluation of dam and levee structures. Consideration of unconfined groundwater flow, filter design, embankment stability, open channels, and other related topics.
CIVL	549	Hazardous Waste Remediation	x		This course provides an overview of the regulatory framework, site assessment and sampling techniques, and remediation technologies for hazardous waste sites. Emphasis is placed on cost-effective remediation technologies, regulatory agency coordination, and new emerging technologies for hazardous waste site clean-up projects.
CIVL	553	Modeling Environmental and Water Resources Systems	x		This course provides an introduction to mathematical modeling techniques used to solve and interpret a variety of environmental and water resources engineering problems. Topics include numerical solution of ordinary and partial differential equations, optimization, and statistical analysis of model results.
CIVL	551	Remote Sensing With Civil Engineering and Environmental Science Applications		x	The course introduces the fundamental concepts of remote sensing from space, remote sensing data, and image data processing. Topics include characteristics of electromagnetic spectrum and remote sensing devices, digital processing methods for interpreting, manipulating and analyzing remotely-sensed image data, and applications of satellite remote sensing to civil engineering and environmental fields.
CIVL	574	Sustainable Engineering	x		Introduction to the role of engineers in sustainability with focus on the modern engineer's role on design. Topics include environmental impacts, economics, climate change, stormwater management, recycled water and desalination, waste management, renewable energy, sustainable building and infrastructure, life cycle assessment, and green rating systems for engineering.

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CIVL	571	Air Quality, Control, and Management	x		Air pollution effects, and principal regulations, including greenhouse gases and environmental justice, emission standards, criteria and toxic pollutants, atmospheric stability, mixing, and inversions, and smog formation; detailed analysis of emission sources, emission calculation methods, air pollutant dispersion modeling, and equipment and processes to control criteria and toxic pollutants. Indoor air pollutants and radon are included.
CIVL	572	Sustainable Waste Management	x		Overview of the regulatory constraints associated with waste management. Application of current technology in municipal solid waste collection, handling, resource recovery, and safe disposal of residuals including landfill design, operation, gas mitigation, and closure. General characterization of principal industrial wastes, typical treatment processes used for recycling, waste reduction, and safe disposal of residuals. Hazardous waste characterization and minimization, storage, treatment, and residuals disposal; overview of site assessment and remediation strategies.
CIVL	573	Economics of Water and the Environment	x		Local, regional, and international economics are a fundamental component of water resources and environmental systems and associated management and decision making. This course covers topics on the debt-monetary system; debt financing for environmental projects; bond market; discount rate; and cash flow equivalence and benefit-cost analysis for project alternatives, including net present value, internal rate of return and unit cost. Students incorporate cost and interest rate uncertainty in project valuation studies as well as perform cost effective analysis using linear programming and other tools. Case studies include water treatment facilities, water transfers, and other environmentally focused projects.
CIVIL	574	Sustainable Engineering	X		Introduction to the role of engineers in sustainability with focus on the modern engineer's role on design. Topics include environmental impacts, economics, climate change, stormwater management, recycled water and desalination, waste management, renewable energy, sustainable building and infrastructure, life cycle assessment, and green rating systems for engineering.
CIVL	577	Transportation Engineering	x		This class introduces basic concepts involved in the broad and important field of transportation engineering. It focuses on passenger transportation, specifically highways and urban public transit. It addresses the characteristics of included modes, basic design of their guideways and stations, selection of appropriate street designs or modes for given applications, conducting trip generation and parking generation studies, and performing demand/capacity analyses. The history of urban transportation, transportation financing, traffic engineering, and transit operations planning is also covered. By the end of the course, students will have a strong basis for continuing their studies in the field and/or will simply be better informed on transportation issues as they inevitably arise in life.
CIVL	601	Sustainable Water Quality and Resources	x		This course introduces fundamental water quality and resources topics in the context of sustainability. Topics include introductions to aquatic interactions and fates of pollutants in natural environments, watershed protection and storm water management for surface and groundwater supplies, sustainable management of groundwater supplies, recycled water production and uses, water quality, and water and wastewater treatment systems.
CIVIL	604	Climate Change, Impacts, and Sustainability	x		Overview of Earth's climate system and exploration of the science, impacts, and politics of global climate change. Specific topics include the greenhouse effect; El Niño; atmospheric and oceanic circulations; observations and projections; impacts on water resources and agriculture; politics; alternative energy; sustainability; and mitigation. Special emphasis is placed on California and the western United States.

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CIVIL	605	Aquatic Chemistry	x		
CIVIL	607	Environmental Engineering and Science Lab	x		
CIVIL	608	Contaminant Fate, Transport, and Remediation	x		
CIVIL	617	Water Treatment Processes	x		
CIVL	618	Water Reuse and Desalination		x	Wastewater reuse and desalination are key components of future water supply systems. This course covers processes used for water reuse and membrane treatment systems. The objectives include understanding: 1) the rapidly expanding wastewater reuse market; 2) advanced treatment processes required for reuse; and 3) the roles and characteristics of membrane systems for treatment of water and wastewater along with desalination for seawater and brackish water. Existing reuse and membrane treatment systems are studied to understand how individual processes are integrated to meet the water quality objectives and treatment requirements for different applications.
CIVL	619	Advanced Integrated Water Treatment Systems		x	Integrated design of water and wastewater treatment facilities from site and process selection, site layout, hydraulics, flow and material balances, pumping, odor control, and chemical feed systems. Includes the design of additional processes such as ozonation, air stripper, ion exchange, adsorption, nutrient removal, etc.
CIVL	613	Solid Wastes Engineering		x	An application of current technology in the collection, control, disposal, and recovery of value from solid wastes.
CIVL	614	Industrial Waste Management	x		Principles and methods of treatment and disposal of industrial wastes that may adversely affect the environment, including general characterization of wastes from industries of major significance and typical treatment processes involved. Regulatory constraints.
CIVL	620	Surface Water Hydrology	x		Study of the elements of the hydrologic cycle, rainfall, streamflow, infiltration, evapotranspiration, snowmelt, hydrographs, probability, river and reservoir routing, runoff determination using the rational method and hydrograph methods.
CIVIL	625	Applied Fluid Mechanics		x	
CIVIL	626	Groundwater Contaminant Transport and Remediation	X		
CIVL	627	Urban Water Systems and Stormwater Management	x		Overview of the theory and practical applied hydraulic design in an urban setting. Topics include potable water conveyance facilities with pump stations and reservoirs; storm water conveyance systems including pipe, street gutter, storm drains, and culverts. Emphasis is placed on the design Low Impact Development (LID) bioretention, and other facilities for regulatory compliance and sustainability, as well as on the application of modeling software used in practice.

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CIVL	628	Groundwater Hydrology and Sustainable Management	x		Groundwater in California and other regions of the world is a critical component of our water supply portfolio, and proper management requires a judicious balance between municipal, agricultural, and environmental interests. In this course, students will learn about 1) the theory of groundwater occurrence and movement; 2) the engineering involved in groundwater extraction, replenishment, and protection; and 3) sustainable basin management strategies and optimization techniques. Specific course topics include theory of the movement and occurrence of water in a porous medium, Darcy's law, steady and unsteady flow in confined and unconfined aquifers, hydraulics of groundwater wells, municipal water well design, use of professional groundwater modeling software, optimization techniques to sustainably manage groundwater basin pumping, safe yield operation, artificial recharge, conjunctive use of groundwater and surface water supplies, seawater intrusion prevention, and sustainable basin management strategies and agreements.
CIVL	629	Groundwater Contaminant Transport	x		Processes affecting the transport and fate of inorganic and organic contaminants in groundwater. Emphasis is placed on processes involving phase equilibrium, mass transfer, dissolution, etc. Review of flow and contaminant transport models, remediation technologies, and practical/regulatory considerations
CIVL	638	Construction Management and Sustainability	x		Course provides students with an introduction to construction management and sustainable building practices and rating systems including CALGreen and Leadership in Energy and Environmental Design (LEED).
CIVL	646	Geotechnical Earthquake Engineering	x		Introduction to engineering seismology and earthquake ground motions. Evaluation of dynamic soil properties, seismic site response analysis, soil liquefaction evaluation and mitigation, seismic slope stability, and seismic evaluation of dams and embankments.
CIVL	647	Dams and Levees		x	Evaluation of geotechnical, hydrology, and hydraulic components for the design and evaluation of dam and levee structures. Consideration of unconfined groundwater flow, filter design, embankment stability, open channels, and other related topics.
CIVL	649	Contaminated Site Remediation	x		An overview of the regulatory framework, site assessment and sampling techniques, and remediation technologies for contaminated sites. Emphasis is placed on cost-effective remediation technologies, regulatory agency coordination, and new and emerging technologies for site clean-up projects.
CIVL	653	Modeling Environmental and Water Resources Systems	x		This course provides an introduction to mathematical modeling techniques used to solve and interpret a variety of environmental and water resources engineering problems. Topics include numerical solution of ordinary and partial differential equations, optimization, and statistical analysis of model results.
CIVL	651	Remote Sensing With Civil Engineering and Environmental Science Applications	X		The course introduces the fundamental concepts of remote sensing from space, remote sensing data, and image data processing. Topics include characteristics of electromagnetic spectrum and remote sensing devices, digital processing methods for interpreting, manipulating and analyzing remotely-sensed image data, and applications of satellite remote sensing to civil engineering and environmental fields.
CIVIL	653	Modeling Environmental and Water Resources Systems	X		

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CIVL	656	Water Resources Systems Modeling		x	Analyze and implement current simulation models in water resources. Topics may include: hydrologic and watershed models; reservoir operation models; surface water and groundwater quality models; computer applications.
CIVL	671	Air Quality, Control, and Management	x		Air pollution effects, and principal regulations, including greenhouse gases and environmental justice, emission standards, criteria and toxic pollutants, atmospheric stability, mixing, and inversions, and smog formation; detailed analysis of emission sources, emission calculation methods, air pollutant dispersion modeling, and equipment and processes to control criteria and toxic pollutants. Indoor air pollutants and radon are included.
CIVL	672	Sustainable Waste Management	x		Overview of the regulatory constraints associated with waste management. Application of current technology in municipal solid waste collection, handling, resource recovery, and safe disposal of residuals including landfill design, operation, gas mitigation, and closure. General characterization of principal industrial wastes, typical treatment processes used for recycling, waste reduction, and safe disposal of residuals. Hazardous waste characterization and minimization, storage, treatment, and residuals disposal; overview of site assessment and remediation strategies.
CIVL	673	Economics of Water and the Environment	x		Local, regional, and international economics are a fundamental component of water resources and environmental systems and associated management and decision making. This course covers topics on the debt-monetary system; debt financing for environmental projects; bond market; discount rate; and cash flow equivalence and benefit-cost analysis for project alternatives, including net present value, internal rate of return and unit cost. Students incorporate cost and interest rate uncertainty in project valuation studies as well as perform cost effective analysis using linear programming and other tools. Case studies include water treatment facilities, water transfers, and other environmentally focused projects.
CIVL	674	Sustainable Engineering	x		Introduction to the role of engineers in sustainability with focus on the modern engineer's role on design. Topics include environmental impacts, economics, climate change, stormwater management, recycled water and desalination, waste management, renewable energy, sustainable building and infrastructure, life cycle assessment, and green rating systems for engineering.
CIVL	677	Transportation Engineering		x	This class introduces basic concepts involved in the broad and important field of transportation engineering. It focuses on passenger transportation, specifically highways and urban public transit. It addresses the characteristics of included modes, basic design of their guideways and stations, selection of appropriate street designs or modes for given applications, conducting trip generation and parking generation studies, and performing demand/capacity analyses. The history of urban transportation, transportation financing, traffic engineering, and transit operations planning is also covered. By the end of the course, students will have a strong basis for continuing their studies in the field and/or will simply be better informed on transportation issues as they inevitably arise in life.

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CIVL	691	FE/EIT Environmental Preparation		x	The Fundamentals of Engineering exam and Engineer-in-Training is the first step in becoming a licensed Professional Environmental Engineer. This course provides preparation for the National Council of Examiners for Engineering and Surveying (NCEES) discipline-specific Environmental FE exam with emphasis on water distribution, wastewater collection, treatment, health risk, noise, air quality, fate and transport, and landfills. The FE reference handbook is used in the solution of practice problems.
CLST	1116	Introduction to Chicana/o-Latina/o Studies		x	An interdisciplinary overview of Chicana/o-Latina/o Studies to familiarize students with historical and contemporary issues in Chicana/o and Latina/o communities.
CLST	1200	Interdisciplinary and Intersectional Methods		x	Sdg 17 understanding how different parts correspond and work together. Such as understanding the interdisciplinary connections between race gender and the environment
CLST	3308	Contemporary Urban Issues		x	Using service learning in Los Angeles, the course helps students understand how the lives of Chicanas/os and Latinas/os are shaped by politics, economics, culture, history, and access to nation-state institutions.
CLST	3320	Racial and Ethnic Politics		x	Comparative analysis of racial and ethnic groups within the United States political system. A focus on the effect of political institutions on minority groups at federal, state, and local levels. Examines the experience of minority groups to illuminate political process in the U. S.
CLST	3362	History of Race and Sport		x	Examines the social, cultural, and political impact of sports in a variety of U.S contexts from the 19th century to the present. Attention given to the ways organized sports constitutes, disrupts, and creates new understanding of race.
CLST	3363	History of Women in California		x	History tells a lot about how we act in the present. Can shed a lot of light on gender equality and its roots in terms of a lack of equality. Sdg 5
CLST	3371	Mexico City/La Comparisson		x	An upper-division examination of the connections between Los Angeles and Mexico City that includes shared political, economic, and social futures. Studies include parallel historical advances that each city made to support burgeoning growth that resulted in mega city status and the concurrent planning issues and innovation it entailed. Students will consider a variety of scholarly disciplines and perspectives.
CLST	3380	Media, Race, and Representation		x	The course examines U.S. media portrayals of various ethnoracial groups. Considers how gender and sexuality figure into these representations. Emphasis on Latina/o/x, Black, East Asian, Arab, and Indigenous representations, as well as representations of whiteness.
CLST	4380	The Politics of California		x	Focuses on the political processes that expand on sustainable development to tackle the problems the state faces such as poverty, homelessness, food and water security, and spearheading climate change.
CLST	4390	The Politics of Los Angeles		x	Focuses on the city specific problems of poverty, healthcare, food security, ev friendly public transportation and ending homelessness.
CLST	4404	Latina Feminist Theory		x	Focuses on current writings by Chicana feminists and connects this material to African American and Asian American feminist theory. The course traces the development of Chicana feminism and its concern with the interlocking conditions of gender, race, sexuality, and class.
CLST	4410	Critical Indigenous Studies	x		Comparative study of Chicana/o and Native American literary and theoretical engagements with questions of nation, sovereignty, and the decolonial. Engages multiple theoretical perspectives and interdisciplinary approaches shaped by feminist, queer, and critical race studies.

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CMSI	517	Embedded Systems		x	Introduction to the design and analysis of computational systems that interact with physical processes. Case studies and applications in selected areas such as medical devices and systems, consumer electronics, toys and games, assisted living, traffic control and safety, automotive systems, process control, energy management and conservation, environmental control, aircraft control systems, communications systems, defense systems, manufacturing, and smart structures.
CMST	2200	Intercultural Communication		x	A study of the principles and theories of human communications related to cross-cultural encounters. This course emphasizes understanding the relationship between persons and culture and for improving communication between persons from different cultural backgrounds.
CMST	2400	Contemporary Rhetorical Theory	x		This course provides a survey of major rhetorical themes and theories, including classical, symbolic, argumentation, critical, feminist, and non-Western approaches to rhetoric. Students will explore the relationship between rhetorical theory and practice, the contributions of rhetorical theory to the social world, and the potential for rhetorical studies to inform issues of democratic governance, marginalized groups, social justice, and technology in society.
CMST	3170	Mindful Living, Mindful Communication		x	Current technology allows us to connect with just about anybody with a touch of the finger; however, we often find ourselves unable to engage in genuine, one-on-one communication, which can be characterized as being "mindful." On the one hand, technology has made us more efficient and productive, but, on the other hand, we find our attention to be scattered and our lives marked by stress and complications. Specifically, in this course there are two overarching goals: 1) students will learn to cultivate mindfulness to become more in tune with what they see, touch, hear, feel, and think, and 2) they will learn how to communicate mindfully by showing respect, compassion, and loving kindness in their relationships.
CMST	3180	Leadership and Interpersonal Communication		x	In this course we will explore a wide range of human behavior as it relates to leadership development and communication with an emphasis on global communication issues. Students will learn about leadership, strengthen leadership skills, and learn to value their potential for leadership. This course will integrate theory and practice to build leadership competencies required in today's global workplace. This course is largely experiential and guided by the principle that leadership is a skill that can be developed and refined.
CMST	3191	Relationship in Context		x	This course introduces students to the interdisciplinary study of human relationships, with a particular focus on the sociocultural approach to relating and communicating. This course is based on the premise that relationships are far more than the matching of personalities or the forming of emotional bonds. Rather, our relational experiences are situated within and shaped by larger historical, social, cultural, technological, and political contexts. Through readings, lectures, class discussions, and film analyses, students will explore social rules in relational conduct, the cultural codes of love and romance, the material/technological circumstances of relating, and the politics of private life. This course is also designed to encourage students to rethink some popular assumptions that inform our understanding of interpersonal communication, such as the false binary of public/private, the illusion of relationships as containers, and the centrality of individualism and cognition.

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CMST	3320	Sexualities and Organizational Communication		x	This course develops and facilitates learners' critical knowledge of the intersections between sexualities, organizations, and communication. Over the course of the semester, we will build a queer understanding of sexuality and organizational communication that is guided by the question, "what would it mean to embody a sexual ethics of organizing?" Building upon theoretical approaches to organizational communication, this course lays an anti-foundational understanding of sexuality, or rather we will come to know sexualities as strange, plural achievements that are lived and embodied within a contested terrain of history, culture, power, and labor.
CMST	3325	Communication and Healthcare	x		Communication plays a critically important role in many different aspects of the healthcare process from care delivery to public health campaigns. This course offers a broad survey of health communication theory, research, and practice focused on patient-provider interaction, communication in healthcare organizations, culture and health, health education, and social marketing.
CMST	3330	Corporate Ethics and Social Responsibility	x		This course consists of a critical exploration of theories and practical applications of corporate ethics and corporate social responsibility (CSR). Students will analyze and critique organizational messages surrounding corporate crises, ethics case studies, and exemplars of corporate social responsibility in the news, historical accounts, and film/documentaries. Students will also learn about being an informed consumer by experiencing a week without a sweatshop, in which they research organizational practices, ethics, production and supply chains, and whether or not employees are paid a living wage, while keeping track of all their purchases for a week, journaling, and writing a self-reflection of the process.
CMST	3335	Sport and Public Communication		x	This course will explore the interplay between the business, socioeconomic, and cultural dynamics of sport and how these intersections are influenced by the aspect of public communication.
CMST	3340	Communication and Work Life Balance		x	This course examines the paradox of work-life balance in the lives of workers who are parents, adult caregivers of aging parents, spouses, significant others, and friends who juggle work and their personal lives. With the boundaries between work and home becoming more and more permeable, work and personal relationships and responsibilities become more complex. In this course we examine the discourses of work-life management in regards to everyday practices as well as organizational policies—the relational level and the organizational level.
CMST	3370	Gender and the Workplace		x	This class will explore basic theories and principles of communication and gender in organizational contexts through lecture, class discussions, case studies, assigned readings, films, and written assignments. Students will develop an understanding of gender issues at work and how we construct gendered stereotypes, policies, and values. The course will culminate in a study of some gender context within the workplace, such as sexual harassment, gender pay equity, mentoring practices, etc.
CMST	3410	Political Communication		x	The act of deliberation is the act of reflecting carefully on a matter weighing the strengths and weaknesses of alternative solutions to a problem. It aims to arrive at a decision or judgment based not only on facts and data but also on values, emotions, and other less technical considerations. This course takes a unique approach to the field of political communication by viewing key concepts and research through the lens of deliberative democracy theory. This course focuses on how communication is central to democratic self-governance primarily because of its potential to facilitate public deliberation.

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CMST	3420	Rhetoric of Women		x	This course provides the opportunity to explore and analyze rhetorical texts created by women in a variety of contexts and for a range of purposes. The overall goal of the course is to examine the ways in which women develop and use rhetoric to function in, challenge, and change the world. Various texts including writing, speaking, visual and performing arts, as well as media forms will be used to understand rhetorical situations, concerns, and goals of women. Students will gain an understanding of feminist perspectives on communication as a foundation for critically questioning, evaluating, and re-envisioning the nature of communication in our socially constructed world. In this course, gender is viewed as a lens, platform, and position that significantly affects and can radically transform our personal, local, and global lives. Particular attention will be given to the ways in which gender and gender issues intersect with race, class, and sexuality.
CMST	3430	Culture, Crime, and Punishment		x	This course examines cultural constructions of crime and punishment. Although the course focuses primarily on the U.S. criminal justice system, we will attend to the prison industrial complex's global reach. Consequently, the course gives students the opportunity to examine one of the most pressing social issues of our time. We will focus our study of cultural constructions of crime and punishment in three different rhetorical cultures: public discourse, prisoners' discourse, and prison activism discourse. These three arenas map onto the three units of the course: 1) Crime and Punishment in the Cultural Imagination; 2) Crime and Punishment in the Prisoners' Imagination, and 3) From Criminal Justice to Transformative Justice.
CMST	3450	Rhetoric of Social Movements		x	The purpose of this course is to facilitate a critical and practical awareness of rhetoric's relationship to social change. As such, this class is both theoretical and practical. This class will analyze individual and group rhetorical strategies and tactics, and consider the utility of these strategies in relation to groups that are attempting to create social change.
CMST	3455	Public Advocacy and Activism		x	This course will fuse theory and practice through the lenses of public policy and activism/advocacy. Students will refine their persuasive speaking/writing skills, put theory into practice via hands-on fieldwork, hone leadership/motivational abilities, be inspired by the rich history of student-led activism and resistance, research and develop communication strategies for (re)framing of issues, and empower themselves to work for a better tomorrow for all.
CMST	3710	Community Based Learning		x	Traditionally, community-based learning and service are distinct from courses of political action and social change. This course focuses on how hands-on community-based learning experiences and skills can act as a vehicle for just social change. Consequently, after the completion of this course, students will have garnered an understanding of the significant relationship between community-based learning, non-profit organizations, and social change. Students will gain hands-on experience in helping organizations create change from a social justice perspective. In so doing, students will gain Communication Studies theoretical and practical knowledge in the non-profit sector from community-based learning and social change perspectives.
ECON	3380	Economic Geography		x	Using geographical information systems to test spatial economics and classical locational theories, we explore economic activity and worldwide patterns of trade.
ECON	3540	Economics of Green Decision Making	x		Develops frameworks for assessing the environmental impact of policies taken by individuals, firms, and governments. Pays particular attention to the assumptions typically made about environmental valuations and assesses these assumptions in different scenarios.

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ECON	3560	Urban Economics		x	A survey of the policy and theoretical issues that are raised when economic analysis is applied in an urban setting. Topics include urbanization and urban growth housing markets, location decisions of households and firms, transportation, urban labor markets, the local public sector, and discrimination.
ECON	3740	Economic Development of Minority Communities		x	Historical study of minority groups in the American economy. Emphasis upon institutions, ideas, and individuals.
ECON	3750	Global Poverty		x	This course is about the challenges posed by massive and persistent poverty across the world from primarily an economics perspective. Topics include the global debates about poverty and inequality, the ethics of global citizenship, and public policy solutions to alleviate poverty.
ECON	4120	Economics and Ethics		x	Economics and ethics examines the roles and effects of ethics on economic analysis, behavior, and institutions. These issues arise, for example, in matters of charity, labor markets, and taxation. This course treats both descriptive and prescriptive theories as well as evidence on ethics from behavioral and experimental economics. It covers standard philosophical theories and connects them to empirical evidence and real world decision-making.
ECON	4160	Environmental Economics	x		Environmental economics deals with the use of society's scarce environmental resources. Economic theory and analysis are applied to various environmental issues, including pollution, sustainable development, clean air, and quality of life.
ECON	4540	Labor Economics		x	Modern theories of market and non-market behavior relating to issues of labor and the determination of wages, salaries, and perquisites. Empirical evidence and public policy considerations are always relevant. Topics may include: education, poverty, discrimination, internal job ladders and management systems, collective bargaining, and unemployment.
ECON	4580	Health Economics	X		Access to quality health care remains an important public health problem for a significant part of the population. This course examines the theoretical and empirical analyses of major topics in health care economics, such as the production of health, demand for medical care and health insurance, the physician-firm, the hospital market, and government provided health care.
ECON	4740	Economic Development		x	This course is about global poverty, with a focus on the market failures that often characterize countries in the developing world and the solutions that countries have adopted to deal with these failures. We will explore how missing or incomplete markets for land, insurance, and credit give rise to the institutions that we see in developing countries, particularly in rural areas. Evidence about important policy debates, such as the role of industrialized countries in the development process, will be discussed in detail.
ECOZ	9000	Economics and Ethics		x	Economics and Ethics examines the roles and effects of ethics on economic analysis, behavior, and institutions. These issues arise, for example, in matters of charity, labor market, and taxation. This course treats both descriptive and prescriptive theories as well as evidence on ethics from behavioral and experimental economics. It covers standard philosophical theories and connects them to empirical evidence and real world decision-making.

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EDES	407	Child, Family, and Community		x	Students will analyze and interpret current social, cultural, institutional, and psychological factors that influence parents and children including: support systems, family structures, lifestyles, communication, attachment, personality, divorce, single parenting, socioeconomic status, prejudice and discrimination, public policies, physical and mental illness/disability, maltreatment, educational settings, and the media. Core developmental theories and related research findings will be analyzed and explored as they apply to today's world.
EDES	420	Chicano/Latino Cultures: an Interdisciplinary Perspective		x	This course presents a cultural analysis of the diversity within chicano/latino groups, particularly as represented in educational settings. Historical, political, and social issues will be addressed, including communicative styles, dialectical differences, and cross-cultural interactions between cultural and linguistic groups. This class is conducted bilingually in spanish and english. This course is a requirement of the bilingual authorization.
EDES	431	American/Chinese/American-Chinese Cultures: an Interdisciplinary Perspective		x	This course presents a cultural analysis of the diversity within chinese/american/american chinese groups, particularly as represented in educational setting. Historical, political, and social issues will be addressed, including communicative styles, dialectical differences, and cross-cultural interactions between cultural and linguistic groups. This course is conducted bilingually in chinese and english. This course is a requirement for the bilingual authorization.
EDES	501	Teaching and Learning in Diverse Communities		x	This course examines the teaching and learning environment through an analysis of the physical, intellectual, emotional, cultural and ethnic factors affecting development and learning during childhood and adolescent years. Emphasis is placed on implications for teaching and learning pk-12 schools. Clinical practice is a required component of this course.
EDES	504	Assessment to Inform Instruction for Diverse Students		x	This course will examine best current practices and principles of assessment for diverse students. The characteristics and uses of both formal and informal assessment strategies and instruments and procedures will be studied with emphasis on formative assessment and progress monitoring as well as principles and practices for effective standards-based instruction. Candidates will learn how to design, administer, and interpret a variety of assessment measures to inform instruction. Clinical practice is a required component of the course.
EDES	507	Integrated Methods for Diverse Populations		x	Goals of this course include providing students with opportunities to acquire knowledge, skills, and abilities to deliver comprehensible instruction to english learners, students with an individualized education plan, individualized services plan, or section 504 plan in all classroom settings. Students will learn how to implement an instructional program that facilitates english language acquisition and development, including receptive and productive language skills, udl and mtss. Students will also acquire and demonstrate the ability to utilize assessment information to diagnose students' language abilities and develop lessons promoting students' achievement of state-adopted academic standards in all content areas. This practical course requires participation in, and completion of, clinical practice activities throughout the semester.

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EDLA	6101	Foundation of Charter School Leadership: Vision of Diverse Students, Families, Staff and Community		x	This course focuses on educators as leaders and change facilitators. Leadership theory, effective communication, effective group facilitation, community relations, will be analyzed through the specific lens of a charter school leader. Methods to articulate a vision consistent with well-developed educational philosophy will be explored. Candidates will participate in learning experiences designed to facilitate the application of theoretical concepts in practical setting. There will be a strong emphasis on cultural and linguistic diversity, special education and the successful development of english language learners, and the parent-school relationship. Candidates will develop a concept for a new charter school and complete element I of a standard charter petition that includes mission and vision of the school, educational program, learning goals and how those goals inspire and enable self-motivated, competent life-long learners.
EDLA	6102	Charter School Instructional Leadership: Student Learning and Professional Growth for Diverse Students, Families, Staff, and Community		x	This course assists candidates to understand the role that learning, leadership, leading for learning, and learning leaders play in the practice of being a reflective practitioner. Candidates will learn how to lead learning both directly and indirectly in their school or organization while addressing the specific challenges and needs of a charter school. This class provides candidates with a variety of opportunities to consider teaching the challenge of driving instruction through curriculum and professional teaching standards, observations, evaluations and interventions, accountability systems, professional development and data-driven decision making. There will be a strong emphasis on cultural and linguistic diversity, special education and the successful development of english language learners, and the parent-school relationship. Candidates will complete crucial elements of their charter petition started in edla 6101 with emphasis on the instructional program and curriculum, instructional framework, meeting the needs of numerous sub-groups of students, and teaching methodologies and ongoing professional development (elements 1, 2, and 3).
EDLA	6421	Vision of Learning for Diverse Students, Families, Staff, and Community and Residency/fieldwork Component		x	This course focuses on educators as leaders and change facilitators. Governmental, political, financial, legal, and historical perspectives of education in the united states will be studied. Leadership theory, effective communication, effective group facilitation, community relations, will be analyzed. Methods to articulate a vision consistent with well-developed educational philosophy will be explored. Candidates will participate in residency/fieldwork experiences designed to facilitate the application of theoretical concepts in practical setting. There will be a strong emphasis on cultural and linguistic diversity, special education and the successful development of english language learners, and the parent-school relationship.
EDLA	6422	Responding to Diversity: Access, Equity, and Educational Opportunity		x	This course provides candidates with a variety of opportunities to examine their own biases related to student diversity, explore ways in which to uncover the biases of others within the school community, and guide all stakeholders through collaborative dialog about important issues related to their own diverse school community. Administration candidates will develop a repertoire of strategies used to guide all stakeholders in defining standards that promote a culture of high expectations for all students. The course will challenge candidates to design and facilitate professional development opportunities for both parents and teachers. This course specifically addresses access, equity, and educational opportunity issues as they relate to the schooling process for historically underserved and disenfranchised students. The major themes covered in the course are: the role of schooling in a democratic society, socio-cultural perspectives of the schooling process, biculturalism and critical pedagogy, and institutional agents and supportive schools.

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EDLA	6423	Student Learning and Professional Growth for Diverse Students, Families, Staff, and Community and Residency/Fieldwork Component		x	This course assists candidates to understand the role that learning, leadership, leading for learning, and learning leaders play in the practice of being a reflective practitioner. Candidates will learn how to lead learning both directly and indirectly in their organization. This class provides candidates with a variety of opportunities to consider teaching the challenge of driving instruction through curriculum and professional teaching standards, observations, evaluations and interventions, accountability systems, professional development and data-driven decision making. Candidates will participate in residency/fieldwork experiences designed to facilitate the application of theoretical concepts in a practical setting. There will be a strong emphasis on cultural and linguistic diversity, special education and the successful development of english language learners, and the parent-school relationship.
EDLA	6425	Transforming Organizations for Diverse Students, Families, Staff and Community and Residency/Fieldwork Component		x	Administrative candidates study how to plan, organize, implement, manage, facilitate, and evaluate the daily operations of schools. This management approach stresses systems models, needs assessment, management plans, administering contracts, technology use, management information systems, decision making processes, problem solving, decentralization, and accountability in a diverse cultural setting. Candidates will participate in residency/fieldwork experiences designed to facilitate the application of theoretical concepts in a practical setting. There will be a strong emphasis on cultural and linguistic diversity, special education and the successful development of english language learners, and the parent-school relationship.
EDLA	6721	Higher Education Law and Public Policy		x	This course assists students in becoming knowledgeable about fundamentals of law that directly and indirectly influences the teaching, learning, and administrative environments of higher education institutions in both the public and private sectors. The policy issues which surround the application of law in college and university settings will also be considered.
EDLA	7001	Leadership for Social Justice in Education	x		This course examines various approaches to conceptualizing, interpreting, and making operational social justice. The course will review the historical development of the concept of social justice in an interdisciplinary manner. Particular attention will be given to: critically competing ethical and religious theories of justice; sociological factors of schools as institutions of injustice and cultures that can promote an ethos to further justice; the relationships of the ethical theory of justice of educational institutions; and the examination of pedagogy for social justice. The goal of the course is to bring together ethics, sociology of education, and concrete pedagogy.
EDSP	427	Creating Effective Classrooms in Diverse Settings		x	This course is designed to prepare candidates to be able to demonstrate knowledge and skills in managing environments for diverse learners that are safe and effective and that facilitate positive self-esteem and self-advocacy. In addition, the candidate will be prepared to demonstrate knowledge of behavioral management strategies, varying communication styles that impact learning and laws, and regulations for promoting behavior that is positive and self-regulatory.
EDSP	440	Introduction to the Culturally and Linguistically Diverse Student With Exceptional Needs		x	General survey of exceptionalities affecting normal child development. Causation, diagnosis, treatment, programs, and resources are included. Implications of recent legislation for the disabled will be emphasized.

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EDSP	476	Policies and Issues in Education for Diverse Learners With Disabilities		x	Survey of current issues and trends in the psychology and education of students with learning handicaps, e.G., Theoretical instructional systems, use of research findings in program implementation, counseling, career guidance, and program evaluation with emphasis on history and practices of bilingual education, including organizational models and instructional strategies.
EDSP	5303	Foundations in Child Welfare and Attendance		x	Candidates will understand the professional role (e.G. Leadership and management responsibilities) of the cwa counselor and develop the legal and professional knowledge and skills necessary to meet the child welfare and attendance state standards. Students will also identify and think critically about their role in effective program management and implementation to address pupil's attendance and academic, psychological and social success. This course is designed to specifically address the ctc cwa standards under the theme of "core knowledge base and foundations."
EDSP	6377	Multicultural Counseling		x	Students examine the spectrum of beliefs, values, and behaviors that comprise cultural diversity and on developing strategies that facilitate the counseling process.
EDSP	6396	Human Sexuality		x	This graduate level course explores historical and contemporary theories and best practices relative to sexuality across the lifespan. The biological, physiological, psychological, and sociocultural factors that influence human sexual responses will be addressed, advanced counseling and psychotherapeutic techniques relative to assessment and treatment will be introduced, and the contemporary socio-political environment relative to certain populations (e.G., Lgbtq, physically challenged, etc.) And the media (e.G., Visual, auditory, and written) that frame the expression of sexuality will be discussed.
EDSP	6526	Social Responsibility, Violence Prevention, and Crisis Intervention in Schools		x	This course focuses on preventive and responsive services to promote resilience and reduce risk in student populations. Candidates learn about the development, implementation, and evaluation of systemic and individual strategies to address issues such as violence, pregnancy, bullying, and suicide. Candidates also learn about best practices in school-based crisis teams, including prevention, preparation, response, and recovery. The importance of collaborating with families and community agencies to ensure safe and violence-free schools is highlighted.
EDUR	400	Sociocultural Analysis of Education		x	A study of the sociological and anthropological analysis of contemporary education with emphases on historical and cultural contexts, culturally sensitive pedagogy, cultural and ethnic diversity, social/cultural issues, equity, access to the core curriculum, and demographic trends in schools and society. Emphasis is placed on the preparation of professionals for the teaching profession and their awareness of social, psychological, and cultural forces shaping society today so that they are prepared to work with all learners. This course is designed for undergraduates in the traditional and/or blended teacher preparation program.
EDUR	500	Cultural Paradigms of Education		x	A study of the sociological and anthropological analysis of contemporary education with emphases on cultural contexts, culturally sensitive pedagogy, cultural and ethnic diversity, social/cultural issues, and demographic trends in schools and society. Emphasis is placed on the preparation of professionals for the teaching profession and their awareness of social, psychological, and cultural forces shaping society today.

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EDUR	5005	Literacy in the Content Areas		x	This course is designed to develop an understanding of the nature of literacy and how it impacts content area learning. Training is provided in a variety of instructional methodologies including strategies designed for culturally and linguistically diverse students, and to develop lessons promoting students access and achievement in relation to state adopted academic content standards. Strategies are grounded in theories of language acquisition.
EDUR	5012	Culture of Learning in Urban Education		x	Sociological and anthropological analysis of the role that language and culture play in urban education. Second language acquisition will be explored in depth.
EDUR	5024	Critical Issues in Education		x	A sociological and anthropological analysis of contemporary education emphasizing the historical/cultural context, culturally responsive pedagogy, cultural and ethnic diversity, equity, access to the core curriculum, and intersectionality in schools and society. Candidates discuss factors which impact education including various learning needs and stages of human development as it relates to culture. This class also addresses theoretical perspectives on the language learning experience of english learners. The course emphasizes the preparation of professionals for the teaching profession and their awareness of social, systemic, and cultural forces shaping schooling today so that they are prepared to work with all learners, take a critical, active stance, collaborate with community, and make an impact on educational opportunity gaps.
EDUR	6100	Anthropological Analysis of Cultural Diversity		x	An in-depth study of cultural diversity using methods from educational sociology and anthropology. The course will examine the major theoretical models advocating responses to cultural diversity and their practical implications for education. Themes/issues covered: contemporary demographics, genetic and cultural deficit theory, cultural mismatch theory, cultural ecological theory, sociocultural theory (neo-vygotskian) and culturally responsive instruction, multicultural education and intercultural communication, critical pedagogy, and qualitative evaluation.
ENGL	3300	Critical and Ethical Issues in Journalism		x	This interdisciplinary course offers a critical, cultural studies analysis of ethical and representational issues in digital, broadcast, print, and all modes of media. In addition to extensive reading, students create journalistic stories exploring and incorporating critical and ethical discussions.
ENGL	3310	The Human Condition: a Long-form Journalism Practicum		x	This course explores the meaning of the literary term the "human condition" and how this applies to a journalistic practice. In this course students will learn the long-form journalistic practice of immersive, in-depth research that is essentially ethnographic. Students will discuss and formulate their own ideas of human nature through site visits to detention centers, hospice, the county morgue, immigration detention centers, and through interviews with people nearing the end of their lives.
ENGL	3362	Reading Cultural Studies		x	Examines the concept of culture in literary analysis, introducing students to different methods of reading and the analysis of power in various social categories such as race and gender, religion, and nationalism.

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ENGL	5511	Political Journalism		x	Political Journalism examines the function of the news media in American politics, campaigns and elections. Students study how journalists and news outlets shape narratives in political discourse and public opinion of politics and political candidates. Students study journalism being produced about current campaigns and produce some of their own coverage of local races in California and Los Angeles.
ENGL	5590	The Feminist Critique: Journalism, the Arts, and Gender		x	A study of arts criticism by women writers.
ENVS	101	Introduction to Environmental Science	x		Introduction to the study of environmental science. Examination of issues and problems associated with the environment including examples from air, water, and soil pollution and some remediation strategies.
ENVS	210	Surveying and Mapping	x		Study of basic surveying instruments and related computations for topographic surveys, horizontal and vertical curves, and the design of highways. The course will include computer aided design and geographic information systems (applications of autocad to civil engineering design and fundamentals of gis using arcview).
ENVS	250	Earth Science	x		An introductory exploration of how the earth works. Focus is placed on connecting the earth systems—the solid earth, atmosphere, oceans, and biosphere—through the cycling of chemical elements and energy. The course will also discuss significant anthropogenic impacts to the natural earth system.
ENVS	263	Surfing and the Ocean Realm	x		Various basic principles of oceanography, meteorology, and marine biology are explored as applied to the art of surfing. Topics include the genesis, propagation, and dynamics of waves; marine weather systems and surf prediction; marine organisms; and marine pollution issues of concern to surfers.
ENVS	275	The Automobile and the Environment	x		The course is designed for non-science majors. Students will be exposed to a broad range of impacts on the, atmosphere, the land, and the water resources of the earth. Both environmental and economic impacts will be studied, along with the influence of globalization. Automotive manufacturing processes and materials, including the mining and manufacturing of iron and steel will be integrated into the overall impact of the automobile on the environment. Automotive metallurgy, plastics, polymers and glass will also be reviewed. Recycling and its reduction on negative impacts will be reviewed within the study of the manufacturing processes. An important emphasis of the course will be the study of fossil fuels and their impact on the environment, global crude oil reserves, coal, natural gas, and alternative fuels such as geothermal, wind and solar will be researched, alternative fueled vehicles, compressed natural gas (cng) and liquefied natural gas, (lng) along with hydrogen fuels will be included in our study of the effort to reduce greenhouse gases and global warming (climate change).
ENVS	276	Atmospheric Science	x		The study of general phenomena of weather; including storms, atmospheric disturbances, and possible effects of pollution. This course involves weather forecasting using real-time meteorological data.

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ENVS	279	Principles of Environmental Sustainability	x		This course explores the reality that the most difficult and enduring challenges are not merely technical but also social and institutional. An introduction to the basic science behind key environmental issues is provided along with tools for analyzing the social and institutional underpinnings of environmental conflict, and strategies to move towards sustainability.
ENVS	301	Environmental Science	x		Study of environmental science problems stressing an interdisciplinary approach. Analysis of problem and formulation of remediation strategies considering appropriate principles from biology, chemistry, physics, earth science, and engineering.
ENVS	302	Environmental Science Lab I	x		Use of standard tests in environmental science to determine chemical and biological species of interest in air, water, and soil systems.
ENVS	310	Oceanography	x		The basic concepts of physical and biological oceanography will be presented.
ENVS	330	Environmental Chemistry	x		A study of environmental chemistry. Topics include stratospheric chemistry, the chemistry of ground-level air and air pollution, toxic organic chemicals, the chemistry of natural waters, soil chemistry and heavy metals, energy production and the environment.
ENVS	332	Environmental Science Lab II	x		Use of standard methods of analysis to determine pollutants found in air, water, and soil systems. Emphasis will be on the use of instrumental methods and techniques.
ENVS	356	Sustainable Practics	x		Discussion of the history of water and energy use in society; analysis of pollution resulting from use of non-renewable energy sources and recent advances in production of renewable and sustainable energy practices; and pollution of water with sustainable practices to provide clean freshwater and appropriate wastewater management.
ENVS	357	Environmental Chemistry: Atmosphere and Climate	x		A study of chemical processes in the environment. Topics include stratospheric ozone depletion, the greenhouse effect, climate change, air pollution, and non-renewable sources of energy.
ENVS	358	Environmental Chemistry: Water, Soil, and Sediment	x		A study of chemical processes in the environment. Topics include renewable sources of energy, water chemistry, water purification, sewage treatment, pesticides, solid waste, soils and sediments.
ENVS	359	Environmental Chemistry Lab	x		Analysis to determine pollutants found in air, water, soil systems; emphasis on the use of instrumental methods and techniques.
ENVS	401	Senior Seminar/Project	x		Research work on a project within the field of environmental science including presentation of a seminar over work.
ENVS	505	Aquatic Chemistry	x		Review of stoichiometry, oxidation-reduction reactions, thermodynamics, and chemical kinetics. Equilibrium chemistry concepts including acid-base, gas, and solid-liquid equilibria applied to aquatic systems with an emphasis on problem-solving methods to determine chemical speciation and ph effects in natural and treated aquatic systems.
ENVS	506	Applied Enviornmental Microbiology	x		Emphasis on the practical physical and biochemical aspects of bacterial metabolism and behavior in the environment as applied to environmental engineering and environmental science; kinetics and energetics of microbial growth as applied to wastewater treatment, biosolids stabilization, and biogas generation.

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ENVS	507	Environmental Engineering and Science Lab	x		Students will learn the theory, application, and techniques of several key environmental laboratory tests and methods of instrumental analysis associated with environmental monitoring and wastewater treatment operations. Tests will be performed on samples collected from various field sites (e.G., Ballona creek, dockweiler beach), local wastewater treatment facilities, or during a field trip to ballona wetlands. Students will develop strong technical and scientific writing skills throughout the course.
ENVS	508	Contaminant Fate, Transport, and Remediation	x		Introduction to physical, chemical, and biological processes governing the movement and fate of contaminants in the surface and coastal water environment. Practical quantitative problems solved based on contaminant mass transport, equilibrium partitioning, and chemical transformations in the environment. Regulatory implications and remediation approaches.
ENVS	513	Solid Waste Engineering	x		An application of current technology in the control, disposal, and recovery of value from solid wastes.
ENVS	525	Inland Waters	x		The structure of and movement of water in lakes, rivers, and estuaries; cyclical and progressive changes of the physical, chemical, and biological composition of aquatic systems are discussed along with an explanation of lake remediation techniques.
ENVS	551	Remote Sensing With Civil Engineering and Environmental Science Applications	x		The course introduces the fundamental concepts of remote sensing from space, remote sensing data, and image data processing. Topics include characteristics of electromagnetic spectrum and remote sensing devices, digital processing methods for interpreting, manipulating and analyzing remotely-sensed image data, and applications of satellite remote sensing to civil engineering and environmental fields.
ENVS	552	Spatial Data Analysis and Geographical Information Systems	x		Concepts, principles, and use of geographic information systems (gis) to investigate spatial patterns associated with physical and social processes. Specific topics include dataset management, site suitability analysis, modeling, remote sensing, cartography and visualization, with a focus on civil and environmental engineering and environmental science applications.
ENVS	580	Engineering Geology	x		Evaluation of the significance of geologic origin, composition, and structure on the characteristics of soils and rocks. Influence geology and plate boundary impacts have on design and construction of engineering projects.
ENVS	581	Ecosystem Services in Urban Landscapes	x		This course focuses on the concept of ecosystem services and how they are integrated into urban watersheds to make cities more sustainable and resilient to a changing climate. Key topics include the structure and dynamics of watersheds, the impacts of poor resource management and pollution to environmental quality within urban watersheds, and reestablishing ecosystem services through green infrastructure and similar strategies, and habitat restoration activities. Material is learned through class discussions, presentations by guest researchers and resource managers, several mandatory weekend field trips, and class projects.
ENVS	582	Urban Coasts: Habitats, Stressors, and Resilience	x		Urban coastal regions provide a wealth of ecosystem services associated with their shallow marine, shoreline, estuarine, and wetland habitats, but are under constant stresses from human activities and a changing climate. Through this course, students will learn about: 1) the nature of coastal habitats; 2) the natural and anthropogenic interactions between oceanic, coastal, and watershed processes impacting these habitats; and 3) policies and strategies, both behavioral and structural, to mitigate stressors resulting in more resilient coastal cities.

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ENVS	583	Environmental Toxicology and Health Risk	x		An introduction to the principles of risk assessment, perception of risk and risk communication as it relates to chemicals, pathogens, and radiation in the environment and their effect on humans and animals considering dermal, ingestion, and inhalation pathways; chronic daily intake, potency factors, dose response, bioconcentration, and bioaccumulation are discussed along with regulatory fundamentals.
ENVS	584	Climate Change and Impacts	x		Overview of earth's climate system and exploration of the science, impacts, and politics of global climate change. Specific topics include the greenhouse effect; climate drivers; atmospheric and oceanic circulations; observations and projections; climate modeling; politics; vulnerability; resiliency, adaption, and mitigation; impacts on water resources, extreme climate events, and agriculture.
ENVS	586	Climate Change Mitigation	x		Opportunities and challenges of climate change mitigation in different sectors such as energy, agriculture, health, transport, housing, urban planning, etc. Co-benefits to the environment and health of climate change mitigation policies at the local, urban, national, and global levels. Linkages with the paris climate change treaty and the national determined contributions.
ENVS	587	Climate Change Adaptation and Resilience	x		Current and future climate impacts on planetary and human health, ecosystems, food systems, socioeconomic determinants, human security, etc. Vulnerability issues. Opportunities of climate adaptation and resilience. Disaster risk reduction and risk management. Climate adaptation strategies, policies, and planning at the community, city, national, and global levels. The paris climate change treaty and adaptation in the national determined contributions.
ENVS	588	Environmental Health	x		Introduction to the field of environmental health sciences. Examination of series of topics relevant to science of environmental health (e.G., Population, agriculture/food, microbiology, energy, climate change, water, waste, air) by introducing scientific basis from ecological perspective and describing how topics relate to health. Risk assessment, risk management, and risk communication. Application of scientific information to real world problems and ability to communicate effectively with different stakeholders. Emerging issues and solutions.
ENVS	589	Sustainability, Health, and Equity	x		Sustainability development goals and practices to protect the planet, human health, welfare, equality, biodiversity, oceans, peace, etc. As part of the new sustainable development 2030 agenda with a focus on health and equity targets. Sustainable production and consumption, sustainable cities, climate action, education, etc. Inter-sectoral, innovative, socio-economic, and environmentally sustainable and equitable solutions. Design an implementation strategy for a specific community on a specific item that is part of one of the 17 sustainable development goals. Emerging circular economy.
ENVS	593	Environmental Science Internship Workshop	x		Advanced work experience in the field of environmental science in a research, industry, or municipal setting.
ENVS	601	Sustainable Water Quality and Resources	x		Review of stoichiometry, oxidation-reduction reactions, thermodynamics, and chemical kinetics. Equilibrium chemistry concepts including acid-base, gas, and solid-liquid equilibria applied to aquatic systems with an emphasis on problem-solving methods to determine chemical speciation and pH effects in natural and treated aquatic systems.
ENVS	608	Contaminant Fate, Transport, and Remediation	x		Introduction to physical, chemical, and biological processes governing the movement and fate of contaminants.

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ENVS	681	Ecosystem Services in Urban Landscapes	X		This course focuses on the concept of ecosystem services and how they are integrated into urban watersheds to make cities more sustainable and resilient to a changing climate. Key topics include the structure and dynamics of watersheds, the impacts of poor resource management and pollution to environmental quality within urban watersheds, and reestablishing ecosystem services through green infrastructure and similar strategies, and habitat restoration activities. Material is learned through class discussions, presentations by guest researchers and resource managers, several mandatory weekend field trips, and class projects.
ENVS	682	Urban Coasts: Habitats, Stressors, and Resilience	X		Urban coastal regions provide a wealth of ecosystem services associated with their shallow marine, shoreline, estuarine, and wetland habitats, but are under constant stresses from human activities and a changing climate. Through this course, students will learn about: 1) the nature of coastal habitats; 2) the natural and anthropogenic interactions between oceanic, coastal, and watershed processes impacting these habitats; and 3) policies and strategies, both behavioral and structural, to mitigate stressors resulting in more resilient coastal cities.
ENVS	684	Climate Change and Impacts	X		Overview of Earth's climate system and exploration of the science, impacts, and politics of global climate change. Specific topics include the greenhouse effect; climate drivers; atmospheric and oceanic circulations; observations and projections; climate modeling; politics; vulnerability; resiliency, adaption, and mitigation; impacts on water resources, extreme climate events, and agriculture.
ENVS	686	Climate Change Mitigation	X		
ENVS	687	Climate Change Adaptation and Resilience	X		
ENVS	688	Environmental Health	X		Introduction to the field of environmental health sciences. Examination of series of topics relevant to science of environmental health (e.g., population, agriculture/food, microbiology, energy, climate change, water, waste, air) by introducing scientific basis from ecological perspective and describing how topics relate to health. Risk assessment, risk management, and risk communication. Application of scientific information to real world problems and ability to communicate effectively with different stakeholders. Emerging issues and solutions.
ENVS	689	Sustainability, Health, and Equity			
EVST	1000	Introduction to Environmental Studies	x		The course is an overview of issues in environmental studies from the perspective of the humanities and social sciences. Topics may include philosophical, theological, historical, economic, and/or political analyses of environmental issues.
EVST	1010	Introduction to Geographic Information Systems		x	An introduction to geospatial and environmental research methods with an emphasis on the use of GIS as an essential methodology for the investigation and visualization of spatial data and multivariate environmental issues.
EVST	3010	Environmental Policy	x		An examination of national/international public policies relevant to environmental issues. Course topics may include policies and relations germane to climate change, water rights/access, resource extraction, and biodiversity conservation.

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EVST	3020	Sustainable Cities	x		An examination of the challenges of and potential solutions to the sustainability of socioeconomic, environmental, and ecological systems associated with historic, contemporary, and future urbanization. Course topics include an analysis of the sustainability of historic and contemporary cities, the consideration of sustainable alternatives associated with such trends as New Urbanism, and the potential for alternative urban policies and practices designed to foster sustainability.
EVST	4001	Environmental Studies Capstone Seminar	x		A capstone seminar in which student groups will bring to bear the multidisciplinary and interdisciplinary perspectives they have developed in the minor by analyzing a local Environmental Impact Report (EIR) or similar local development issue.
FNLT	4200	Comparative Cultures		x	Interdisciplinary and comparative approaches in the study of cultures. Students study the process through which different nations or communities understand and express their cultural identities and diversities. They examine the ways in which cultural identities become politically dominant at different historical moments, and how, more generally, cultures contaminate and influence each other.
FTVS	3310	Film/Media and Social Justice		x	Offers students an understanding of how certain movements, aesthetics, directors, and/or genres in film and media engage issues of social justice. This course may also address the intersection of spirituality, faith, religion and social justice issues. Refer to specific semester description.
GEOG	1000	Human Geography		x	An introduction to general world patterns of major cultural elements and processes and their influence on relationships between human societies and their environment. Cultural and environmental differences between developed and less developed nations and their regional implications in the modern world are emphasized.
GEOG	3060	Modern Mexico		x	A survey of the distinctive social, cultural, economic, and political elements of modern Mexico. The environmental and historical basis of the country's recent development is examined.
HHSC	170	Personal Health		x	This course will introduce students to the basics of human health, including physical and psychological well-being, spiritual health, environmental health, nutrition, and exercise. Other health topics will be included. An activity component is required.
HHSC	278	Science, Nutrition, and Health		x	The study of nutrients and their functions, recommended nutrient intakes, and dietary adequacy while focusing on how to apply this knowledge personally. Emphasis on nutritional roles in health status and chronic disease. Exploration of how behavior change plays a role in nutrition and a healthy lifestyle.
HHSC	335	Global Nutrition		x	Nutritional science will be covered in relation to global perspectives, culture, religion, and environmental issues. Physiological explanation to under nutrition and strategies to overcome them will be examined. Nutrition-related chronic diseases in various nations will be investigated. Discussion will include the influence of culture and religion on dietary practices and nutrient intake. Study will include topics of world hunger, food safety, genetically modified foods, and organic/sustainable farming practices. The agricultural approach to farming and its influence on the environment, our food supply, and ultimately our health will be studied.
HHSC	336	Nutrition Service Learning Lab		x	Advanced analysis of nutritional science topics including food safety, accessibility to healthy food, diet analysis, and food quality, especially in its relationship to health and chronic disease. Matters of hunger and poverty will be discussed in this community-based learning course which requires organized service, guided reflection, and critical analysis.

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HHSC	342	Peer Health Education		x	This course is designed to challenge and expand the students' beliefs and perceptions about health and wellness through active discussion and exercises in introspection. Students will receive current information on the most pressing and relevant issues related to the college population including general wellness, public health issues (current and future), nutrition/exercise, sexual health and identity, body image/eating disorders, stress management, sexual assault, and substance abuse (alcohol and drugs). Students will research and present on a health related topic to enhance their presentation and communication skills.
HHSC	344	Global and Community Health		x	This course will address all different kinds of health issues in the local community and around the globe. Global and community health will address issues on Imu's campus, in Los Angeles, in the United States, and in other regions of the world. These aspects of health include physical, intellectual, social, spiritual, and emotional. The primary topics will be health promotion, disease prevention, health systems, consumer health issues, communicable diseases, and chronic health problems. Each of these issues will be addressed from the perspective of each of the communities previously stated. Critical thinking will be a major component of this course, and ethical and environmental considerations will also be addressed. The topics will be timely and applicable to current health concerns around the globe. There will also be a focus on health promotion and how best to address the health concerns in the variety of communities discussed.
HHSC	410	Health Services for Marginalized Populations		x	This course will focus on the mental and physical health needs of transitional populations, which include transitional age youth (16-25 years of age), homeless individuals seeking permanent supportive housing, ex-offenders on probation in residential re-entry centers, and veterans seeking stable housing options. All populations are socially and financially vulnerable and may also be struggling with barriers to stability (lack of educational attainment or job training), alcohol/other substance abuse, and depression due to estrangement from friends, family, and/or support networks. Well-being is a complex phenomenon that exists at the intersection of both biological health and social wellness. As such, this course takes a community health science approach to examining the intersections of individual biological health, broader health systems, and public health. This class is community-based and includes a fieldwork component. It uses social justice-based, community learning strategies to deepen students' conceptual frameworks, empathy/solidarity, ability to work on team-based projects, and ability to enact social change.
HHSC	490	Health and Human Sciences Teaching		x	
HIST	1060	Modern Global Environmental History	x		A course in global history with a particular focus on environmental history, exploring how humans, animals, natural forces, and science and technology have shaped the environment; the ways in which historical developments such as migration, empire, trade, industrialization, and urbanization have affected humans' relationships with nature; and how the environment has affected historical developments.
HIST	1900	Science, Nature, and Society in the West		x	This course examines the history of the West, defined as European and North American societies and cultures, through the lens of science and nature from the sixteenth century to the present, tracing the history of ideas about science and nature in relation to broader social, economic, and political changes and demonstrating the inseparability of science and social context.

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HIST	3452	U.s. Environmental Hisotry	x		This course presents essential concepts, concerns, and methods of environmental history—the study of the relationships between humans and their physical environment—in the context of United States history. Topics include American Indians and the environment, European colonization and settlement, urbanization and industrialization, conservation and environmentalism, environmental racism and social justice, and contemporary environmental issues in historical perspective.
HIST	3820	Environment and Economy in China	x		This course investigates the interactions between human activities and their environment in Chinese history. Topics include visions of the relationship between nature and humanity in Chinese philosophy, climate change, demographic trends, food security, interventions of the imperial state, and ecological transformations on China's frontiers.
HIST	4433	Health and Disease in American Culture		x	The history of health, disease, and medicine in the American social and cultural context, from the colonial period to the present.
INBA	4895	Global Sustainability : Challenge and Prospects in East Asia	x		This course explores cross-disciplinary theory and practice of sustainability within a global context, and with an emphasis on East Asia. This course includes a two-week tour abroad to enrich student learning through direct international experience.
LIBA	1081	Exploring Wellness I	x		Introduction to wellness, including physical, psychological, nutritional, financial, and environmental and the skills and campus resources that contribute to academic success.
LIBA	1082	Exploring Wellness II	x		
LIBA	4900	Education and Global Issues	X		In this course students examine global issues in the context of education and educational institutions. Students will address critical questions such as: What does it mean to be an aware and responsible local and global citizen and how can education promote such? How can education become a more powerful vehicle for promoting greater peace, justice, and equity in our world? Throughout the course each student does in-depth research on a topic of relevance and interest and produces and presents a thesis paper at the end of the course. Theses may relate, for example, to issues such as global conflict, economic integration, governance, technology, security and privacy, biodiversity/environmental awareness/climate change, or resource management, as well as the ways in which these issues overlap and are interrelated. The focus is on how our educational institutions prepare students to understand, critically evaluate, and act on these and other complex issues both in the immediate, local context, as well as in the larger global context of an increasingly interconnected world, where disparities of many types continue to grow.
MECH	321	Energy Systems	X		Review of energy equation and principles of thermodynamics; entropy and exergy. The fundamentals on conventional and renewable energy resources including the basics of conventional energy conversion. Additional topics will include the environmental impacts of energy consumption and economic considerations.
MECH	524	Alternative Energy Systems	x		A detailed study of alternative energy technologies including: solar thermal, solar photovoltaic, wind, fuel cells, and geothermal systems will be covered. In-depth analysis of the technical aspects of these systems will be covered while considering economic and environmental constraints. Energy storage and grid integration will also be considered.
MGMT	4695	Global Sustainability : Challenge and Prospects in East Asia	X		

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MRKT	4524	Sustainable Marketing Enterprises	X		Understanding challenges and designing solutions at the intersection of sustainable marketing/business practices, societal welfare, and ecological systems; topics covered including sustainability in the areas of consumption and consumer behavior, product design, marketing research, value chains, and communications; project to understand needs and design product solutions, and develop a marketing/business plan for organizations that captures economic, environmental, and social sustainability.
MRKT	4535	Public Policy Marketing		X	This course is designed to explore the interaction between marketing strategies/processes and governmental policies designed to manage the economy and promote public and consumer welfare. Topics covered will include the roles of various governmental agencies (such as the FDA, the CPSC, and the EPA) and the roles of private actions such as boycotts and consumer activism in influencing business decisions and practices. The course will often take an historical approach, examining the advancement of U.S. public policy toward business as societal values and economic conditions have evolved in this country. Specific topics addressed include consumer rights and protection, environmental sustainability, vulnerable consumers, regulatory failures and regulatory capture, trade-offs among various stakeholders, ethical dilemmas, and the marketing of potentially harmful or controversial products such as firearms, tobacco, and alcohol.
MRKT	4595	Value Creation and Marketing Accountability		x	There is an increasing desire and need for enterprises to more clearly link marketing activities to financial returns and other broader measures of performance, such as sustainability and quality of life. Doing so requires not only technical and analytic capabilities but also new cross-functional platforms, business routines, organizational structures, and planning processes. By developing such competencies, business enterprises will be positioned to make decisions that reflect the “voice of the consumer/customer” and lead to improved short- and long-term financial performance, as well as other elements of the triple bottom line, such as sustainability and quality of life. This course explores how (and why) the functions of Marketing, Insights/Analytics, Finance, and IT can work together to achieve improved business and societal results.
POLS	4515	Food Politics Seminar	x		Examines food poverty, domestic food policy, industrial animal farming, environmental concerns and sustainability. Includes critical thinking and writing workshops, multiple assignments for research papers, and an engaged learning component.
SOCL	1000	Principles of Sociology		X	Development of the perspectives, concepts, and methodologies needed for objective, analytical thinking about human interaction. Relationships explored in terms of the development of the self through interaction, basic types of social organization, collective behavior, types of institutions, and aspects of the total social system such as social change and population phenomena.
SOCL	3150	Sociology of Health and Illness		x	Development of the field of medical sociology, with emphasis on changing patterns in the health care and delivery systems, doctor-patient relationships, and health care.
SOCL	3221	Race and Ethnic Relations		X	An examination of the interaction between ethnic and racial minorities and the majority group in the light of current sociological theories of social conflict and social change.
SOCL	3222	Sociology of the Black Community		x	A survey of the effects of long-standing discrimination and deprivation upon family structure, occupational patterns, health and education conditions, motivation, and personal as well as group identity. An analysis of the black power concept and its influence upon the concept of Afrocentrism and the focus on community control.
SOCL	3300	Urban Sociology	x		An examination of the basic historical processes which have shaped cities, including spatial differentiation. Topics may include the formation of community, metropolitan deconcentration, urban poverty, housing segregation, and third world urbanization.

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SOCL	3340	Social Movements		X	Social Movements examines the role of people-driven social change throughout the globe. We examine how and why social movements emerge, such as the Civil Rights and Feminist Movements, as well as what makes them successful.
SOCL	3250	Health and Social Justice	x		This course examines how social, political, and economic conditions shape the distribution of health and disease among different populations in the United States and elsewhere. Using a social justice framework, it explores how social inequalities, prejudice, and discrimination contribute to inequalities in health and disease.
SOCL	3341	Politics, Faith, and Civic Engagement		x	The broad objective of this class is to introduce students to studying religion and its impact in the social world, including politics, social policy, community services, and social movements. We will examine the relationship between religion and society, taking into consideration both how religion is shaped by society and how religion shapes society, with an emphasis on religion in the U.S. Additionally, we will look at emerging religiously based social movement and political action.
SOCL	3390	Work and Economic Justice		X	Explores the social dynamics of work and occupations in terms of culture, ideology, race, class, and gender. Topics will include the day-to-day experiences of the workplace, the politics of the economic system, and the social changes related to globalization and the international economy.
SYEG	540	Systems Thinking: Major Tech Changes/Impacts		x	Systems Thinking is a course in which both students and faculty of two LMU Colleges work together: Bellarmine College of Liberal Arts (Seniors and Honors) and Frank R. Seaver College of Science and Engineering (the Systems Engineering graduate program). We look at complex systems that combine both technological and societal aspects of our civilization, seeking to understand how things influence one another within a large context, and how we can influence them for common good. The concepts of common good and public interest are discussed and serve as the ethical baseline for the discourse on the big questions of our time, such as: healthcare, energy and transportation, public health, K-12 education, end-of-life health management, defense and homeland security, and others. Systems engineering and liberal arts students will complement each other's thinking.
SYEG	584	Occupy Mars; Explorations in Space Travel and Colonization		x	This multi-disciplinary course examines the potential for near term travel to and colonization of Mars, including the various environmental, medical and technical challenges of space travel. It covers the basic science and technology involved in space programs, as well as the many different dangers, the benefits, costs, and the political and cultural challenges. The course will start with the history of manned spaceflight, previous unmanned missions to Mars, and planned future missions. We will discuss and develop the requirements for travel to Mars, including the space transportation systems, life support systems, habitat requirements on Mars, and how to sustain life during transit and once on Mars. We will assess the current state of technology, including current US, International, and private space activities, and develop an understanding of what is required to conduct an initial manned mission to Mars, as well as what is required to sustain life on Mars for the long term.
THST	3261	Voluntary and Involuntary Poverty		x	This course will explore the phenomenon of "being poor" in different religious and non-religious contexts with the goal of understanding how poverty can both undermine and advance the human good. The course will examine what human good(s) poverty violates and what justifies those goods as "goods," especially in light of the claim—present in many religious traditions, and, especially, the Catholic monastic tradition—that poverty, properly understood, can constitute a good itself.

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THST	4061	Christian Etics and HIV/AIDS		x	This course analyzes how distinct approaches and sources in Christian ethics, including elements of scripture, tradition, sexual ethics, virtue ethics, and social ethics interact as they relate to confronting the AIDS crisis. This supports the equity aspect of sustainability where supporting and understanding certain groups pf people can create a better supported system.
THST	4070	Ministry to Youth and Young Adults		x	The course examines the theory and practice of ministry with and for youth and young adults, with emphasis on faith development, community building, justice and service education, advocacy, and guidance of youth and young adults.
THST	4080	Topics in Comparative Theology		x	Multiple religious perspectives will be utilized in this course to explore one or more topics of theological concern, such as violence and nonviolence, myth and symbol, modes of spirituality, images of God, and/or multicultural religious presence in Los Angeles.
THST	4081	Islam in the Modern World		x	An introduction to the contemporary Islamic religious tradition, including Muslim approaches to modernity, major reformers of Islam in the modern world, Muslim feminism, and the role of Islam in North America.
THST	6063	Issues in Bioethics		x	This course will introduce the student to the basic theological concepts, frameworks, and analyses that have been used by both Catholic and Protestant theologians in their discussions of bioethics. Topics such as assisted reproductive technologies, abortion, genetic control, care of severely handicapped neonates, death and dying, and the meaning and application of "quality of life" to contemporary issues will be discussed in both lecture and seminar formats.
THST	6081	Comparative Religious Ethics		x	This course begins with a comparative survey of ethics as found in the world's religious traditions. Specific issues such as war and peace, euthanasia, and environmentalism are then examined.
THST	6083	Hinduism, Vedanta, and Yoga		x	This course investigates primary sources, including the Rig Veda, the Upanisads, the Bhagavad Gita, and the Yoga Sutra.
URBN	1000	The Urban World	x		An introduction to historic and contemporary cities, processes of urbanization, and urban society. Course topics include urban origins, urban economics, the internal structure of cities, urban infrastructure, urban social and cultural processes, urban physical and social environments, and city systems in the regional and global context.
URBN	1010	Introduction to Geographical Information Systems	x		An introduction to the resources and methodologies commonly utilized in contemporary urban research. Course topics include data sources such as the census, methodologies for spatial analysis such as GIS, quantitative and qualitative research design, map reading, and fieldwork strategies.
URBN	3010	Metropolitan Los Angeles	x		An introduction of the social, economic, political, environmental, and spatial characteristics and dynamics of metropolitan Los Angeles in the context of postmodern urbanization in the United States.
URBN	3045	Urban Planning	x		An introduction to the problems, principles, and practices of contemporary urban planning, especially in California and the United States.

Department	Course Number	Title	Sustainability Course	Contains Sustainability	Course Description
URBN	3046	Sustainable Cities	x		An examination of the challenges of and potential solutions to the sustainability of socioeconomic, environmental, and ecological systems associated with historic, contemporary, and future urbanization. Course topics include an analysis of the sustainability of historic and contemporary cities, the consideration of sustainable alternatives associated with such trends as New Urbanism, and the potential for alternative urban policies and practices designed to foster sustainability.
URBN	3047	Community Development	x		An exploration of the meanings and methodologies of community development, especially in contemporary urban America.
WGST	1000	Gender and Social Movements	x		An interdisciplinary study of women in society through overview of the major issues, innovations, and debates that have characterized the field of Women's and Gender Studies. Course introduces history of feminist activism and discourse in the U.S.
WGST	1100	Gender, race, and Sexuality in Contemporary Society	x		An introduction to critical thinking skills about concepts such as gender, race, class, and sexuality, how these intersect in lives of women of color together with women's strategies of surviving, resisting, and overcoming barriers.
WGST	2000	Women in Global Communities	x		This course introduces students to the cultural, social, political, and economic contexts in which non-Western women live. It addresses the impact of globalization, colonialization, and post-coloniality, and women's responses to these processes.
WGST	3100	Feminist Research Methods		x	Examines feminist methodologies through hands-on research and considers the complex relationships between researchers and their subjects, the impact of social location on our field of vision, ethical issues in the research process, as well as research that facilitates social and gender justice.
WGST	3200	Gender, Race and Environmental Justice	x		This course explores the relationships between peoples and environments, focusing on the roles and resources, identity, power relations, and geography. The course explores the theoretical and material implications of the different ways in which environmental injustice leads to the degradation of gendered environments and bodies. The course will provide multiple interdisciplinary perspectives on the state of gender, sexuality, race, ethnicity, and the environment.
WGST	3400	Women in the Middle East		x	This course explores the themes and variations in women's lives in the Middle East. Particular attention will be paid to family structures, rural-urban, social class and ethnic differences, social and political movements, religion, work, and education.
WGST	3600	History of Women in California		x	This course explores California history from the perspective of the women who have lived, worked, and migrated here from the period of Spanish exploration to the present. Designed around experiential learning, this course takes students to important sites in and around Los Angeles to witness sites of history for themselves, visit some of LA's world-class museums, and contextualize our studies in terms of what California looks like today, and how the women's history of the state shapes its role in the larger world.
WGST	3800	Gender and Urban Geographies	x		This course uses the discipline of critical urban geography and feminist theory to explore the following questions: 1) What is a city? 2) Why do humans live in cities? 3) How does living in a city shape who humans are? We explore the phenomena of racial and gender segregation in cities, investigate the spatialization of race, the construction of vice and crime in the city, and discuss the gender of the division between the public and the private in urban geographies.

Department	Course Number	Title	Sustainability Course	Contains Sustainability	Course Description
WGST	4101	Gender and Globalization		x	Examines how gender is shaped by globalization through the feminization of labor and migration, environmental degradation, diaspora, sexuality, cultural displacement, and militarization. Explores the ways women have confronted these conditions as well as the possibilities and challenges of cross-border feminist coalitions.
YGST	6010	Health Science and Yoga I		x	An overview of anatomy and physiology from the Western perspective and Ayurvedic theories of the subtle body, health, and wholeness.
YSGT	6060	Health Science and Yoga II		x	