

Last Updated 6/16/2015

Course	Department	Instructor (most recent)	Semester (most recent)	Graduate/ Undergraduate	Course Description	Notes
Economics and Policy of Production, Technology and Risk in Agricultural and Natural Resources, (A,RESEC 241)	Agricultural and Resource Economics	Daniel Zilberman	Fall 2014	Graduate	This course covers alternative models of production, resource and environmental risk management; family production function; adoption and diffusion; innovation and intellectual property rights; agricultural and environmental policies and their impact on production and the environment; water resources; pest control; biotechnology; and optimal control over space and time.	201 and 202, or Economics 201A-201B, or consent of instructor.
Empirical International Trade and Investment, (A,RESEC 232)	Agricultural and Resource Economics	Staff	Before Spring 2013	Graduate	Empirical aspects on international trade, foreign investment, and the environment. Issues related to testing various trade models. Topics include: testing trade models (HO, Ricardo, Specific Sector); gravity models; linkages between openness and growth; trade orientation and firm performance; pattern of trade; trade and the environment; labor markets and trade. New topics in international trade with empirical applications, such as trade models with heterogeneous firms, outsourcing and foreign investment.	
Issues and Concepts in Agricultural Economics, (A,RESEC 202)	Agricultural and Resource Economics	J.M. Perloff, S.B. Villas-Boas	Spring 2015	Graduate	History, institutions, and policies affecting agriculture markets and environmental quality. Producer behavior over time and under uncertainty. Asset fixity and agricultural supply models.	Economics 201A-201B or consent of instructor.
Production, Industrial Organization, and Regulation in Agriculture (A,RESEC 201)	Agricultural and Resource Economics	L.S. Karp, D.L. Sunding	Fall 2015	Graduate	Basic concepts of micro and welfare economics: partial and general equilibrium. Industrial organization: monopolistic competition, vertical integration, price discrimination, and economics of information with applications to food retailing, cooperatives, fishing, and energy.	Economics 201A or equivalent or consent of instructor.
The Anthropology of Food, (ANTHRO 140)	Anthropology	Staff	Fall 2015	Undergraduate	This course examines the place of food in society and includes discussions of identity, taste, taboos, ritual, traditions, nationalism, health, alcohol use, civilizing society, globalism, and the global politics of food.	
Holocene Paleoeology: How Humans Changed the Earth, (ANTHRO C129D)	Anthropology	Kirch	Spring 2014	Undergraduate	Since the end of the Pleistocene and especially with the development of agriculturally based societies humans have had cumulative and often irreversible impacts on natural landscapes and biotic resources worldwide. Thus "global change" and the biodiversity crisis are not exclusively developments of the industrial and post-industrial world. This course uses a multi-disciplinary approach, drawing upon methods and data from archaeology, palynology, geomorphology, paleontology, and historical ecology to unravel the broad trends of human ecdynamics over the past 10,000 years. Also listed as Anthropology C129D.	Either Anthropology 2 or Biology 1A.
Urban Farming (ARCH 202)	Architecture	Renee Chow	Fall 2014	Graduate		
Biotechnology, (BIO ENG 22)	Bioengineering	L. Lee, Dueck	Before Fall 2013	Undergraduate	This course is intended to introduce students to a variety of fields that fall under the biotechnology umbrella. In general, these fields include medical, microbial, agricultural, animal, and forensic biotechnology. Students in this course will learn the types of biotechnology projects currently being worked on, as well as the techniques and assays used within these projects.	22L (must be taken concurrently).
Healthy Cities, (CRP 256)	City and Regional Planning	Jason Corburn	Fall 2014	Graduate	Exploration of common origins of urban planning and public health, from why and how the fields separated and strategies to reconnect them, to addressing urban health inequities in the 21st century. Inquiry to influences of urban population health, analysis of determinants, and roles that city planning and public health agencies - at local and international level - have in research, and action aimed at improving urban health. Measures, analysis, and design of policy strategies are explored.	
Technologies for Sustainable Societies, (CIV ENG 292A)	Civil and Environmental Engineering	Horvath, Agogino	Fall 2015	Graduate	Exploration of selected important technologies that serve major societal needs, such as shelter, water, food, energy, and transportation, and waste management. How specific technologies or technological systems do or do not contribute to a move toward sustainability. Specific topics vary from year to year according to student and faculty interests.	Graduate standing or consent of instructor., Must be taken on a satisfactory/unsatisfactory basis.
Economics of Race, Agriculture, and the Environment, (ENVECON 140AC)	Environmental Economics and Policy	Jeffrey M. Romm	Before Fall 2013	Undergraduate	This course examines whether and how economic processes explain shifting formations of race and differential experiences among racial groups in U.S. agricultural and environmental systems. It approaches economic processes as organizing dynamics of racial differentiation and integration, and uses comparative experience among different racial and ethnic groups as sources of evidence against which economic theories of differentiation and integration can be tested.	1, or one lower division course in a social science, or consent of instructor.
Industrial Organization with Applications to Agriculture and Natural Resources, (ENVECON 142)	Environmental Economics and Policy	Staff	Spring 2015	Undergraduate	Organization and performance of agricultural and resource markets. Conduct of firms within those markets, such as price competition, product differentiation, predatory pricing, vertical integration, dealer networks and advertising. The role of public policy in the markets. Case studies include oil cartel OPEC, agricultural cooperatives, vertical integration of food processors and franchising of fast-food chains. Discussion sections cover empirical applications of theory presented during lectures for current environmental and agricultural policies.	
Modeling and Management of Biological Resources, (ENVECON C115)	Environmental Economics and Policy	Wayne M. Getz	Fall 2015	Undergraduate	Models of population growth, chaos, life tables, and Leslie matrix theory. Harvesting and exploitation theory. Methods for analyzing population interactions, predation, competition. Fisheries, forest stands, and insect pest management. Genetic aspects of population management. Mathematical theory based on simple difference and ordinary differential equations. Use of simulation packages on microcomputers (previous experience with computers not required). Also listed as Environ Sci, Policy, and Management C104.	
Economics and Policy of Production, Technology and Risk in Agricultural and Natural Resources, (A,RESEC 241)	Agricultural and Resource Economics	Daniel Zilberman	Fall 2015	Graduate	This course covers alternative models of production, resource and environmental risk management; family production function; adoption and diffusion; innovation and intellectual property rights; agricultural and environmental policies and their impact on production and the environment; water resources; pest control; biotechnology; and optimal control over space and time.	202 and 202, or Economics 201A-201B, or consent of instructor.

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Technologies for Sustainable Societies, (CIV ENG 292A)	Civil and Environmental Engineering	Horvath, Agogino	Fall 2017	Graduate	Exploration of selected important technologies that serve major societal needs, such as shelter, water, food, energy, and transportation, and waste management. How specific technologies or technological systems do or do not contribute to a move toward sustainability. Specific topics vary from year to year according to student and faculty interests.	Graduate standing or consent of instructor., Must be taken on a satisfactory/unsatisfactory basis.
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Modeling and Management of Biological Resources, (ENVECON C115)	Environmental Economics and Policy	Wayne M. Getz	Fall 2016	Undergraduate	Models of population growth, chaos, life tables, and Leslie matrix theory. Harvesting and exploitation theory. Methods for analyzing population interactions, predation, competition. Fisheries, forest stands, and insect pest management. Genetic aspects of population management. Mathematical theory based on simple difference and ordinary differential equations. Use of simulation packages on microcomputers (previous experience with computers not required). Also listed as Environ Sci, Policy, and Management C104.	
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Seminar in Range Ecosystem Planning and Policy, (ESPM 280)	Environmental Science, Policy, and Management	James Bartolome	Before Fall 2013	Graduate	A seminar course dealing with selected current topics in range ecosystem planning and policy.	
Sustenance and Sovereignty: The Sociology of Agriculture and Food Systems (ESPM 290)	Environmental Science, Policy, and Management	Kathryn De Master	Fall 2015	Graduate	This graduate seminar explores the sociology of agriculture and food systems, addressing key theories and topics in the field. We begin with the antecedents of the sociology of agriculture, including foundational classical agrarian theories and some investigations into the distinct but related field of peasant studies. We then proceed to an overview of the field, from its emergence to present day, before delving into a series of topical foci and analyses.	
Agroecology and Ecosystem Services (ESPM 290)	Environmental Science, Policy, and Management	Claire Kremen	Fall 2014	Graduate		
Biodiversity and Human Health (ESPM 290)	Environmental Science, Policy, and Management	Claire Kremen	Spring 2015	Graduate	This interdisciplinary seminar, co-taught by a physician and a conservation biologist, will explore the bidirectional relationship between human and ecosystem health. Focusing on our food production system, we will investigate how promoting biodiversity, ecosystem repair and resource conservation relate to our health. Participants will have the opportunity to participate in individual or group projects.	
Sociology of Agriculture (ESPM 230)	Environmental Science, Policy, and Management	Kathryn De Master	Fall 2015	Graduate	This graduate seminar explores the sociology of agriculture and food systems, addressing key theories and topics in the field. We begin with the antecedents of the sociology of agriculture, including foundation classical agrarian theories and an overview of the field, followed by topics ranging from pesticide drift to agricultural labor injustice to food sovereignty movements and more. This course is most appropriate for students with some background in agr-food and social systems.	
Creating a Sustainable Landscape: On-Campus Gardening (ESPM 98/198)	Environmental Science, Policy, and Management	Miguel Altieri	Fall 2015	Undergraduate	Directed group study in ESPM	
Garden Leadership and Management (ESPM 98/198)	Environmental Science, Policy, and Management	Pallud	Fall 2015	Undergraduate	Directed group study in ESPM	
Berkeley Urban Gardening Internship (ESPM 198)	Environmental Science, Policy, and Management	Kathryn De Master	Fall 2015	Undergraduate	Directed group study in ESPM	
Food and the Environment, (GEOG 130)	Geography	Nathan Sayre, Michael Watts	Spring 2015	Undergraduate	How do human populations organize and alter natural resources and ecosystems to produce food? The role of agriculture in the world economy, national development, and environmental degradation in the Global North and the Global South. The origins of scarcity and abundance, population growth and migration, hunger, and poverty.	
Global Ecology and Development, (GEOG 35)	Geography	Michael Watts	Before Fall 2013	Undergraduate	Problems of Third World poverty and development have come to be seen as inseparable from environmental health and sustainability. The course explores the global and interconnected character of environment and development in the less developed world. Drawing on case studies of the environmental problems of the newly industrializing states, food problems, and environmental security in Africa, and the global consequences of tropical deforestation in Amazonia and carbon dioxide emissions in China, this course explores how growth and stagnation are linked to problems of environmental sustainability.	

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California, (GEOG 50 AC)	Geography	Lunine, S R	Fall 2015	Undergraduate	California had been called "the great exception" and "America, only more so." Yet few of us pay attention to its distinctive traits and to its effects beyond our borders. California may be "a state of mind," but it is also the most dynamic place in the most powerful country in the world, and would be the 8th largest economy if it were a country. Its wealth has been built on mining, agriculture, industry, trade, and finance. Natural abundance and geographic advantage have played their parts, but the state's greatest resource has been its wealth and diversity of people, who have made it a center of technological and cultural innovation from Hollywood to Silicon Valley. Yet California has a dark side of exploitation and racialization.	
Global Environmental Politics, (GEOG 138)	Geography	Sandy Brown	Fall 2013	Undergraduate	Political factors affecting ecological conditions in the Third World. Topics include environmental degradation, migrations, agricultural production, role of international aid, divergence in standard of living, political power, participation and decision making, access to resources, global environmental policies and treaties, political strife and war.	
Prehistoric Agriculture, (GEOG 109)	Geography	Roger Byrne	Fall 2014	Undergraduate	Agricultural origins and dispersals in the light of recent biological and archaeological evidence.	
Holocene Paleoecology: How Humans Changed the Earth, (INTEG BI C155)	Integrative Biology	Kirch	Spring 2014	Kirch	Since the end of the Pleistocene and especially with the development of agriculturally based societies humans have had cumulative and often irreversible impacts on natural landscapes and biotic resources worldwide. Thus "global change" and the biodiversity crisis are not exclusively developments of the industrial and post-industrial world. This course uses a multi-disciplinary approach, drawing upon methods and data from archaeology, palynology, geomorphology, paleontology, and historical ecology to unravel the broad trends of human ecdynamics over the past 10,000 years. Also listed as Anthropology C129D.	Either Anthropology 2 or Biology 1A.
The Economics of Climate Change, (IAS C175)	International And Area Studies	Anthoff	Fall 2014	Undergraduate	The course will start with a brief introduction and evaluation of the scientific aspects behind climate change. Economic models will be developed to analyze the impacts of climate change and provide and critique existing and proposed policy tools. Specific topics studied are impacts on water resources and agriculture, economic evaluation of impacts, optimal control of greenhouse gases, benefit cost analysis, international treaty formation, discounting, uncertainty, irreversibility, and extreme events. Also listed as Environmental Economics and Policy C175.	
Science Reporting--How to Read, Make Sense of, and Write about Emerging Research in Food and Nutrition (JOURN 219)	Journalism	Marion Nestle	Spring 2015	Graduate		
Master's Project Seminar (Following the Foodchain), (JOURN 294)	Journalism	Michael Pollan	Spring 2014	Graduate	Advanced study of methods of reporting developments in such fields as science, education, health, or the environment.	
Ecological Analysis, (LD ARCH 110)	Landscape Architecture and Environmental Planning	Dronova	Fall 2015	Undergraduate	Analysis of environmental factors, ecosystem functions, and ecosystem dynamics, as related to decision-making for landscape planning and design.	
Ecological Analysis Laboratory, (LD ARCH 110L)	Landscape Architecture and Environmental Planning	Dronova	Fall 2015	Undergraduate	Introduction to field techniques for assessment of landscape factors. Factors include topography, geology, climate, soil, hydrology, flora, vegetation, and wildlife.	
Landscape Plants: Identification and Use (LD ARCH 112)	Landscape Architecture and Environmental Planning	Kooyumjian	Spring 2015	Undergraduate	This course is an introduction to the identification and recognition, as well as design applications and uses, of plants in the landscape. Through lectures, assignments, and fieldwork, the course provides class participants with an appreciation of the importance of vertical vegetation as a design element. Students will be introduced to a variety of built projects and plants commonly used in Bay Area landscapes.	
Environmental Science for Sustainable Development, (LD ARCH 12)	Landscape Architecture and Environmental Planning	Kondolf, Staff	Fall 2015	Undergraduate	The scientific basis of sustainability, explored through study of energy, water, food, natural resources, and built environment. Physical/ecological processes and systems, and human impacts from the global scale to local energy/resource use. Energy and water audits of University of California at Berkeley, opportunities to increase sustainability of processes/practices. Discussion/lab section involves data collection/analysis (e.g., Strawberry Creek, atmospheric particulates) and integrative sustainability assessment project.	
Sustainable Landscapes and Cities, (LD ARCH 130)	Landscape Architecture and Environmental Planning	Stryker	Spring 2015	Undergraduate	This course introduces the foundations of sustainability most related to the restoration, design, and creation of landscapes and cities. The underlying principles of ecology, nature, and democracy are concretized in centered-ness, connectedness, fairness, sensible status seeking, sacredness, particular-ness, selective diversity, density and smallness, limited extent, adaptability, everyday future, naturalness, inhabiting science, reciprocal stewardship, and pacing.	

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The American Designed Landscape Since 1850, (LD ARCH C171)	Landscape Architecture and Environmental Planning	Mozingo	Fall 2015	Undergraduate	This course surveys the history of American landscape architecture since 1850 in four realms: 1) urban open spaces—that is squares, plazas, parks, and recreation systems; 2) urban and suburban design; 3) regional and environmental planning; 4) gardens. The course will review the cultural and social contexts which have shaped and informed landscape architecture in the United States since the advent of the public parks movement, as well as, the aesthetic precepts, environmental concerns, horticultural practices, and technological innovations of American landscapes. Students will complete a midterm, final, and a research assignment. Also listed as American Studies C171.	
Food Law and Policy, (Law 220F)	Law	Van Houweling, Sugarman	Spring 2015	Graduate	This seminar will explore a wide range of issues related to food law and policy. Topics will likely include food safety, food labeling and marketing, regulation and patenting of genetically-modified organisms, farm subsidies, treatment of livestock, farm labor, organic farming standards, hunger and obesity, international trade in food, and promotion of local and sustainable agriculture. Students will read a variety of materials in preparation for weekly discussions and will each write a 30+-page research paper.	
Products & Place	Law	Richard Mendelson		Graduate		
Wine Law	Law	Richard Mendelson		Graduate		
Edible Education: The Rise and Future of the Food Movement, (NAT RES C101)	Natural Resources	Gary Sposito	Spring 2015	Undergraduate	As a subject, food is multi-disciplinary, drawing on everything from economics and agronomy to sociology, anthropology, and the arts. Each week experts on organic agriculture, school lunch reform, food safety, animal welfare, hunger and food security, farm bill reform, farm-to-school efforts, urban agriculture, food sovereignty, local food economies, etc. will lecture on what their areas of expertise have to offer the food movement to help it define and achieve its goals. Also listed as Letters and Science C101.	108A or concurrent enrollment.
Introduction and Application of Food Science, (NUSCTX 108A)	Nutritional Sciences and Toxicology	Kristen Rasmussen	Fall 2015	Undergraduate	Evaluation of the chemical, physical, functional, and nutritional properties of foods. Emphasis on how these properties, and preparation, processing, and storage, influence quality characteristics of food products.	
Application of Food Science Laboratory, (NUSCTX 108B)	Nutritional Sciences and Toxicology	Kristen Rasmussen	Fall 2015	Undergraduate	Experimental evaluation of the chemical, physical, functional, and nutritional properties of foods, and the changes occurring during preparation that affect quality characteristics of food products.	
Food Systems Organization and Management, (NUSCTX 135)	Nutritional Sciences and Toxicology	Kristen Rasmussen	Spring 2015	Undergraduate	Principles of organization and management applied to institutional food service systems: production and delivery systems, management of resources, quality assurance, equipment, layout, marketing, personnel management, fiscal management. Laboratory experiences, projects and field work in institutional situations.	10 recommended.
Human Diet, (NUSCTX C159)	Nutritional Sciences and Toxicology	Katharine Milton	Spring 2015	Undergraduate	Since we eat every day, wouldn't it be useful to learn more about human dietary practices? A broad overview of the complex interrelationship between humans and their foods. Topics include the human dietary niche, biological variation related to diet, diet and disease, domestication of staple crops, food processing techniques and development of regional cuisines, modern diets and their problems, food taboos, human attitudes toward foods, and dietary politics. Also listed as Environ Sci, Policy, and Management C159.	
Human Food Practices, (NUSCTX 104)	Nutritional Sciences and Toxicology	Kristen Rasmussen	Spring 2015	Undergraduate	Historical, geo-ecological, biological, cultural, socio-economic, political and personal determinants of human diets. Community food and nutrition problems and programs. Food safety and consumer protection. Contributes to the pursuit of multidisciplinary degrees in nutrition policy and planning.	103, or Molecular and Cell Biology 102 or equivalent.
Intro to Human Nutrition, (NUSCTX 10)	Nutritional Sciences and Toxicology	Aponte, Shane	Fall 2015	Undergraduate	This course provides an overview of digestion and metabolism of nutrients. Foods are discussed as a source of nutrients, and the evidence is reviewed as to the effects of nutrition on health. The emphasis of the course is on issues of current interest and on worldwide problems of food and nutrition. Students are required to record their own diet, calculate its composition, and evaluate its nutrient content in light of their particular needs.	
Metabolic Bases of Human Health and Diseases, (NUSCTX 160)	Nutritional Sciences and Toxicology	Stahl, Napoli, Krauss	Spring 2015	Undergraduate	The physiological bases of human nutrient homeostasis and common disorders resulting from over and under nutrition will be discussed with a specific focus on macronutrients. Topics related to nutrient deficiency and excess will include adaptation to starvation and the effects of caloric restriction on life-span, obesity and its complications, lipoprotein metabolism and cardiovascular disease, as well as a detailed discussion of the causes, disease mechanisms, and treatment of diabetes mellitus.	
Nutrition in the Community, (NUSCTX 166)	Nutritional Sciences and Toxicology	Henderson, M N	Fall 2015	Undergraduate	This course addresses basic nutrition in the context of the community. It explores nutrition programs that serve various segments of the population and the relationships of these programs to nutrition policy at the local, national, and international levels. Community assessment is used as the basis for program planning, implementation, and evaluation. The specific needs of population groups (infants, children, women, and the elderly) are considered and questions of food security are investigated.	
Introduction to Toxicology (NUSCTX 11)	Nutritional Sciences and Toxicology	C. Wang, Nomura, J. Wang	Spring 2014	Undergraduate	Discussion of principles for the evaluation of toxic hazard of natural and man-made substances present in the environment, the workplace, food, drink, and drugs. The bases for species selectivity, individual variations in sensitivity and resistance, and the combined effects of toxic agents will be addressed. Issues related to the impact of toxic agents in modern society will be emphasized.	

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Toxicology, (NUSCTX 110)	Nutritional Sciences and Toxicology	Leonard F Bjeldanes, Jen-Chyan Wally Wang	Fall 2015	Undergraduate	A comprehensive survey of the principles of modern toxicology and their applications in evaluating the safety of foods, additives and environmental contaminants. Mechanisms of metabolic activation, detoxification, gene regulation, and selective toxicity are emphasized.	
Fungi, History, and Society (PLANTBI 11)	Plant and Microbial Biology	Bruns	Spring 2015	Undergraduate	Fungi have interacted with humans in both positive and negative ways throughout history. These interactions have included production of foods, medicines, fuels, plant and animal diseases, decay, allergies, and mind-altering drugs.	Must be taken on a passed/not passed basis.
Genetic Revolution, (PLANTBI 13)	Plant and Microbial Biology	Freeling	Spring 2014	Undergraduate	Genetic discoveries have changed our lives. All are controversial. Especially changed are human physical and mental health, agriculture, social systems, and worldviews. Having many DNA-sequenced genomes, including human, accelerates discovery. This course will study the science, history, and philosophical implications behind past discoveries and will contemplate future genetic revolutions.	
Introduction to the Plant Sciences at Berkeley, (PLANTBI 20)	Plant and Microbial Biology	Sung	Fall 2015	Undergraduate	This course will include discussions on the academic path (courses) needed for the Genetics and Plant Biology major; an introduction to resources and facilities for studies of the plant sciences at Berkeley, such as the University Herbarium and the Botanical Garden; an exploration of plant science related careers, including presentations from guest speakers who work in organic farming, government, and Cooperative Extension; talks by faculty about their current research, and information about how to do research in a lab.	Biology 1A-1B.
Encounters with Plants: First-hand Experiences with the Culture, Lore, and History of Plants (PLANTBI 24)	Plant and Microbial Biology	Feldman	Fall 2014	Undergraduate	Freshman Seminar: Reading and discussion with Plant and Microbial Biology faculty on current research and topics in plant and microbial biology. Topics which may be discussed include microbial biology, plant genetics, plant development, plant pathology, agricultural biotechnology, and genetic engineering. Ideal for students who are considering a major in the Department of Plant and Microbial Biology. Enrollment is limited to 20 freshmen.	
Modern Applications of Plant Biotechnology, (PLANTBI 170)	Plant and Microbial Biology	Baker, Somerville	Before Spring 2013	Undergraduate	This course is designed to introduce students to the principles and applications of modern plant biotechnology. Basic concepts of modern agriculture will be reviewed in light of emerging biotechnology applications. Emphasis will be placed on understanding the tools and strategies involved in optimizing plant productivity.	
Plants, Agriculture, and Society (PLANTBI 10)	Plant and Microbial Biology	Staskawicz, David Zilberman	Fall 2015	Undergraduate	Changing patterns of agriculture in relation to population growth, the biology and social impact of plant disease, genetic engineering of plants: a thousand years of crop improvement and modern biotechnology, interactions between plants and the environment, and effects of human industrial and agricultural activity on plant ecosystems. Knowledge of the physical sciences is neither required nor assumed.	
The (Secret) Life of Plants, (PLANTBI 40)	Plant and Microbial Biology	Zambryski	Spring 2015	Undergraduate	Covers contemporary topics in plant biology. Examines how plants grow, reproduce, and respond to the environment (e.g., to light) in ways distinct from animals. Presents basic principles of genetics, cell, and molecular biology. Basics of genetic engineering and biotechnology reveal how they are used to modify plants, and these socially relevant issues are assessed. Includes visit to modern plant biology research laboratory, and aspects of plant disease and diversity. Knowledge of the physical sciences neither required nor assumed.	
Environmental Health and Development, (PB HLTH C160)	Public Health	Rachel Morello-Frosch	Spring 2015	Undergraduate	The health effects of environmental alterations caused by development programs and other human activities in both developing and developed areas. Case studies will contextualize methodological information and incorporate a global perspective on environmentally mediated diseases in diverse populations. Topics include water management; population change; toxics; energy development; air pollution; climate change; chemical use, etc. Also listed as Environ Sci, Policy, and Management C167.	
Food and Nutrition Policies and Programs, (PB HLTH 206B)	Public Health	Gosliner	Spring 2015	Graduate	This course examines the historical origins of food and nutrition improvement programs in the United States, including the political and administrative conditions that led to the development of these programs. It also examines the goals, design, operations, and effectiveness of some of these programs: Food Stamp Program, the Special Supplemental Nutrition Program for Women, Infants, and Children (WIC), the National School Lunch Program, the School Breakfast Program, Head Start, the Child Care Food Program, and the Elderly Nutrition Program.	
Food and Nutrition Programs and Policies in Developing Countries, (PB HLTH 206D)	Public Health	Lia Fernald	Spring 2013	Graduate	This course will use a case-based approach to examine the ways in which governments in developing countries design and implement policies and programs that affect food production and access to safe, affordable, and nutritionally adequate diets. In the course we will analyze, assess and evaluate ways to take action to ameliorate the major nutritional problems facing vulnerable populations in developing countries.	

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Foodborne Disease, (PB HLTH 266A)	Public Health	Lu	Fall 2014	Graduate	This course will cover public health, microbiological, social, and economical issues related to foodborne diseases. Three areas will be explored: 1) categories, clinical manifestations, and disease processes of foodborne illnesses; 2) etiological agents causing foodborne illnesses; 3) investigation and prevention of foodborne illness. The course will discuss different types of foodborne diseases, clinical manifestations, and the interactions between etiological agents (pathogens and non-pathogens) and human hosts. We will cover pathogens that are the most frequently associated with foodborne illness including bacterial and viral pathogens such as Salmonella, E coli, hepatitis viruses and Norwalk-like gastroenteritis viruses. We will also study non-pathogen agents such as heavy metal, pesticide, and toxic chemicals. Furthermore, the course will discuss how to identify the etiological agents in outbreaks and possible measures that can be taken to minimize the risk to the public including vaccines and education. Finally, we will explore the social and economic issues involved in the food production, distribution, and consumption that contribute to foodborne diseases.	
Global Health Policy, (PB HLTH 220E)	Public Health	Keller	Before Fall 2013	Graduate	This course will provide an intensive introduction to current topics in international health policy. Students in the course will become familiar with the major actors, institutions, and regimes that shape international health policy. The course will also introduce students to theories of governance as they apply to international settings and evaluate the relative roles of state actors, NGOs, and international regimes in producing key health policy outcomes. The course will cover several current issues in international health and will require students to critically assess the state of policy with respect to these issues. Using Bardach's method for policy analysis, students will analyze current policies and propose policy alternatives with an assessment of the tradeoffs implied in choosing a given policy option over its competitors.	
Global Health Core Course (PB HLTH 212D)	Public Health	Reingold	Spring 2015	Graduate	This is a graduate level survey course on selected topics in international health designed to introduce students to key areas of the specialty. The course will review the main contributors to the global burden of disease and discuss current interventions and possible approaches for the future. The primary goal of the course is to transfer knowledge and experiences that will prepare public health students to evaluate international health projects and better prepare themselves for international health work. The focus is on developing countries with the most challenging large-scale health problems, where physical and systems infrastructure as well as human resources are poorly developed. The course provides students with the tools to make their own assessments. Complex ethical and political issues pervading this field will also be addressed throughout the course.	
Global Health: Multidisciplinary Examination, (PB HLTH 112)	Public Health	Arthur L. Reingold	Spring 2015	Undergraduate	This course examines health at the individual and community/global level by examining the interplay of many factors, including the legal, social, political, and physical environments; economic forces; access to food, safe water, sanitation, and affordable preventive/medical care; nutrition; cultural beliefs and human behaviors; and religion; among others. Students will be expected to read, understand, and use advanced materials from diverse disciplines. Class accompanied by case-based discussions.	
Health Care Technology Policy (PB HLTH 222A)	Public Health	Robinson	Spring 2015	Graduate	The course examines the public policy institutions and processes influencing innovation, regulation, and payment for biotechnology, pharmaceuticals, and medical devices. Topics include technology transfer and patent law, the Food and Drug Administration (FDA) review for safety and efficacy, insurance coverage policy at the Center for Medicare and Medicaid Services (CMS), coverage, payment, and benefit by private insurers for new technology, and cost-effectiveness analysis. Special topics vary from year to year. Examples and case studies are drawn from all three of the technology sectors.	
Introduction to Community Health and Human Development, (PB HLTH 150E)	Public Health	Satariano	Spring 2015	Undergraduate	This course will consist of a survey of the major social, cultural, and bio-behavioral patterns of health and well-being among individuals, families, neighborhoods, and communities. The course also will address the design, implementation, and evaluation of leading social and behavioral interventions and social policies designed to improve community and population health. This course will satisfy one of the core requirements for the undergraduate major in public health.	
Nutrition Status, Physical Activity, and Chronic Conditions (PH 206A)	Public Health	Laraia	Fall 2015	Graduate	Concepts, methods, and limitations in the determination of nutritional status; application of methodologies for determining and interpreting data; technical, social, and political implications of nutritional assessments and related community needs.	
Nutritional Epidemiology, (PH 206C)	Public Health	Block	Fall 2015	Graduate	This course develops the ability to read published nutritional epidemiology research critically. Basic research methods in nutritional epidemiology will be reviewed, and issues in design, analysis, and interpretation unique to nutritional epidemiology will be addressed. This will be accomplished by readings and study questions, lecture/discussions, and problem sets.	
Health Issues Seminars: Designing Innovative Solutions to Public Health, (PB HLTH 290 002 SEM)	Public Health	Jaspal	Fall 2015	Graduate	Working in teams, students will innovate for public health impact, creating targeted solutions in collaborative projects with a range of real, organizational clients. Students will learn and apply systematic strategies for innovation, borrowing from fields such as design thinking, ethnography, systems thinking, creativity. In Spring 2014 only, the focus will be on reshaping the global and domestic food environment and food systems.	

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Climate, Energy, and Development ( PUB POL C221)	Public Policy	Kammen	Fall 2014	Graduate	Graduate seminar examining the role of energy science, technology, and policy in international development. The course will look at how changes in the theory and practice of energy systems and of international development have co-evolved over the past half-century, and what opportunities exist going forward. A focus will be on rural and decentralized energy use, and the issues of technology, culture, and politics that are raised by both current trajectories, and potential alternative energy choices. We will explore the frequently divergent ideas about energy and development that have emerged from civil society, academia, multinational development agencies, and the private and industrial sector. Also listed as Development Practice C221 and Energy and Resources Group C221.	
Energy and Society (PUB POL C284)	Public Policy	Kammen	Fall 2015	Graduate	Energy sources, uses, and impacts; an introduction to the technology, politics, economics, and environmental effects of energy in contemporary society. Energy and well-being; energy international perspective, origins, and character of energy crisis. Also listed as Energy and Resources Group C200.	Minimum one semester of graduate-level microeconomics and statistics or consent of instructor.
Environment and Technology from the Policy and Business Perspective, (PUB POL 282)	Public Policy	Taylor	Before Fall 2013	Graduate	Most environmental issues involve technology, either in the role of "villain" or "hero." This course uses the lens of specific technologies to survey environmental policy and management, with an emphasis on the complexities of policy-making with diverse interest groups. The class includes case studies, guest practitioners, and a group project in which students employ a range of analytic tools and frameworks in order to develop creative, effective, and actionable environmental solutions.	
International Economic Development Policy, (PUB POL C253)	Public Policy	DeJanvry, A	Fall 2015	Graduate	This course emphasizes the development and application of policy solutions to developing-world problems related to poverty, macroeconomic policy, and environmental sustainability. Methods of statistical, economic, and policy analysis are applied to a series of case studies. The course is designed to develop practical professional skills for application in the international arena. Also listed as Agricultural and Resource Economics C253.	
Special Topics in Public Policy: The Fight for Food Justice: Mass Movement or Consumer Culture? (PUB POL 290)	Public Policy	Saru Jayaraman	Fall 2015	Graduate		
ICT for Social Enterprise (INFO 287)	School of Information	Parikh	Before Fall 2013	Graduate	This class is focused on the creation of sustainable enterprises based on ICT (Information and Communications Technologies) innovations supporting international development. We take a broad view of entrepreneurship—including starting new businesses, non-profit initiatives, and/or public sector projects. We will take a highly iterative, design-oriented, feedback-driven approach to developing and refining business plans for social enterprises.	
Information and Communications Technology For Development, (INFO 290)	School of Information	Burrell	Spring 2015	Graduate	This seminar reviews current literature and debates regarding Information and Communication Technologies and Development (ICTD). This is an interdisciplinary and practice-oriented field that draws on insights from economics, sociology, engineering, computer science, management, public health, etc.	Sociology 1, 3, 3AC, or consent of instructor.
Information Technology and Identity: The Future of Storytelling (INFO 290A)	School of Information	Hardy	Fall 2014	Graduate		1, 3, 3AC, or consent of instructor.
Cultural Perspectives of Food, (SOCIOL 169F)	Sociology	Bakehorn, J A	Fall 2014	Undergraduate	The course will provide a broad overview of food as culture. The course begins with foundational writings on the cultural implications of food as consumption and social distinction, and the culture of a global food world. The course also examines how food is imbued with gender, race, class, ethnic and sexual meanings and the constitution and creation of identity.	
Global Sociology: Social Perspectives of the Food Industry	Sociology	Bakehorn, J A	Fall 2013	Undergraduate	Global sociology seeks to transcend national boundaries, studying the world as a unit unto itself, populated by organizations, networks, and movements. Global sociology cannot be constructed by sociologists from a single country, but it must be a collaborative effort from different parts of the planet. We will study globalization through a sociological lens by asking distinguished sociologists from around the world to discuss such contemporary issues as immigration, terrorism, disasters, etc.	
Global Health and Social Justice (SOCIOL 115G)	Sociology	Laura Nathan	Spring 2015	Undergraduate	This course examines the social forces that promote and sustain illness throughout the globe and contribute to illness outbreaks becoming epidemics and pandemics. Emphasizing the central roles of poverty and politics in shaping health risks, disparities within and across nations are explored. With the understanding that health is, at core, a social justice issue, this course reviews policies and programs that attempt to address health problems, some of which have helped to alleviate suffering and some of which have caused additional harm.	
Entrepreneurship to Address Global Poverty, (UGBA 195S)	Undergraduate Business Administration	Staff	Spring 2013	Undergraduate	This course examines whether and how entrepreneurial ventures can meaningfully address global poverty vs. more traditional approaches such as foreign aid, private philanthropy or corporate social responsibility initiatives. Combining lectures, case studies, and interviews with social entrepreneurs, it explores poverty and entrepreneurship before focusing on their intersection in various bottom-of-pyramid markets, from health, housing, and education to energy, agriculture, and finance.	

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<b>DECAL COURSES</b>						
Course	Department	Facilitator	Faculty Sponsor	Semester (Most Recent)	Course Description	Notes
Fruitful Minds	NST	Victoria Brodsky	Mikelle McCain	Fall 2014	UC Berkeley students will serve as Ambassadors for Fruitful Minds, a nutrition education program aimed at local urban youth, ages 9 to 14, to address childhood obesity. Students will prepare for and teach a nutrition education class series to area youth at a site and time to be determined by the needs of the Fruitful Minds program. The course time commitment will include a one and a half hour weekly review and preparation session to be held on campus and a one hour fieldwork session at a local school or after school program. Fieldwork sites will most likely be located in Oakland and/or Berkeley. Topics to be covered include a review of the Fruitful Minds curriculum as well as teaching strategies, program evaluation tools, and youth engagement. Additional assignments will enhance student contributions to weekly preparation sessions and improve knowledge of current nutrition issues. Students should have a basic understanding of or a strong interest in food and nutrition. Previous teaching experiences will be helpful, but are not necessary.	
Cooking 101	Linguistics	Catherine Tralka	Keith Johnson	Spring 2014	The class will consist of one two hour class meeting per week. Each class meeting will focus on a particular dish and use the cooking of that dish as a launching point to explain relevant techniques and methods. The first half hour will be spent on a brief lecture introducing the days topic, a quick demonstration of the recipe techniques, a short nutritional summary, meal planning information, and the history of the chosen dish. The next hour and a half will be spent cooking the dish demonstrated in the lecture. There will be weekly readings, weekly homework assignments, bi-weekly field trips, and a final project.	
Exploring the UC Botanical Garden	PMB	Hannah Miller	Chelsea Specht	Spring 2014	The goal of this course is not to grill you on your understanding of course materials or the regurgitation of facts; rather, this course aims to combine all aspects of participation to lead you to a more fulfilling relationship with the UC Botanical Garden (UCBG) and all that it has to offer. At the end of this course, you will be able to confidently lead someone on a tour around the garden, learn of all the ways you can utilize the garden, be more familiar with California native plants, and be able to recognize the costs and benefits of having such a resource at Cal. All activities and projects are equally important to the overall experience, and we guarantee that you will enjoy doing them!	
Dulce(Diabetes Awareness Decal)	PH		Abby Rincon	Fall 2015	D.U.L.C.E. is a diabetes awareness and prevention program established in 2001 by Chicanos/Latinos in Health Education (CHE) of UC Berkeley. Through the decal, students will gain the knowledge on how diabetes impairs the body and how one can avoid or cope with the complications that arise from this chronic disease. As a means of raising the importance of diabetes prevention, the students will explore personal health and establish goals for improvement in the areas of nutrition and exercise. In order for the students to feel comfortable conveying the knowledge to their friends, family and community there will be a Health Education Activity and a presentation on Community Health and Development as it relates to diabetes. By the end of the semester, students will have the vital knowledge and skills necessary to convey the information in community health events.	
The Wonders of Desserts	Chemistry	Nerissa Ignacio, Karen Yi	Marcin Majda	Spring 2014	Explore the "wonders" of desserts and the chemistry behind them. We will look into basic ingredients of baking, unique desserts from around the world, and the mechanisms and assortment of processes involved in creating the perfect dessert. Each lecture will consist on topics of the chemical, biological, and physical concepts of how the desserts were produced and manufactured. An assignment regarding the learned topic will be assigned that week for supplementary learning. There will be one midterm and one group final presentation. There will also be a guest speaker and a field trip during the instructional days. This decal is constructed for students to find or enhance their love for desserts by looking at them from a whole new perspective.	
Coffee Break	NST	Christine Benik	N/A	Spring 2014	We start by going over coffee cultures in cafes and how coffee is served differently all around the world. We continue by discussing the plant and its different forms in various regions and how it transforms to a delicious cup of joe. There will be a field trip to a local roaster to view the process of how the berry becomes a bean. All the different ways of brewing coffee will be discussed. Students will get to vote on the best coffees by having having a sampling taste test. The nutritional science of coffee will also be covered and the myths behind caffeine revealed. Coffee will also be discussed outside the cafes as we undercover the human rights surrounding coffee farms. There are many uses for coffee outside drinking it and we will share our tricks of the trade. Lastly we will look at coffee in a global context as we try to grasp its play in the world as a whole by looking at monopoly corporations in relation to Ma and Pa coffee shops.	

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The Gluten Epidemic: An Introduction to Celiac Disease	MCB	Justin Inman, Kevin Youssefzadeh	Russell Vance	Spring 2014	We will be discussing the causes, mechanisms, and symptoms of the increasingly important Celiac Disease. Celiac is an autoimmune condition caused by extreme gluten sensitivity. If you or someone you know may be affected by gluten sensitivity or Celiac disease, this might be the class for you!	
Organic Gardening and Food Justice	ESPM		Kathryn De Masater	Spring 2014	The Student Organic Garden was established in 1971 by students, and continues to be fully operated and managed by undergraduates. Today the garden gives students a space for experiential learning and helps individuals find a place in the global food movement. The SOGA Interns & Facilitators DeCal will create a collaborative and supportive atmosphere for active student involvement in the garden. Class time will be devoted to working on projects (interns) or learning and improving the weekly lesson plans for the Organic Gardening and Food Justice DeCal (facilitators). This course is designed to both introduce new gardeners to the basic theories and methods of organic gardening, as well as provide an opportunity for more experienced gardeners to practice their skills and grow organic food. Above all, in our class we hope to inspire students to become intimately engaged with what they eat, through hands on experience in horticulture, compost, garden design, seasonal planning, and exposure to the local food justice movement.	
Student Environmental Activism	ESPM	Magnolia Barrett	Gordon Frankie	Spring 2014	This decal seeks to introduce students to environmental activism, to inspire involvement within the campus environmental community and the greater campus community, to build relationships, and to give students the tools and resources to create tangible change. This class will provide students who are already involved in the environmental community a chance to learn from one another, share resources, collaborate, and to inspire and empower each other to remain active in creating solutions to the environmental problems we learn about every day in our classes.	
Strawberry Creek Restoration DeCal	ESPM	Ariel Cherbowsky, Jennifer Podvin	Katharine Suding	Spring 2014	Opportunities to learn about Strawberry Creek histories, the historical ecology of the watershed, urban creek ecology, native and invasive species, leading creek caretaking efforts, evaluating creek health, urban water infrastructure, designing creek-related environmental education materials for the public, native plant collection and propagation, and maintaining the Strawberry Creek Native Plant Nursery and Native Plant Garden, as you participate in community-based urban ecological restoration!	
Human and Ecosystem Health	ESPM	Kathryn Fiorella	Justin Brashares	Spring 2014	Links between human health and ecosystem health are widespread. Malaria becomes more common in deforested regions. Wildlife hunting exposes people to zoonotic diseases, provides nutritious foods, and may harm wildlife sustainability. People rely on ecosystem services to provide food, clean air, and clean water. The interlinks of environmental and human health are not new, but we increasingly approach them from interdisciplinary perspectives that allows us to better understand the complex ways human and environmental health interact.	
TeaCal	Geography	Dylan Paddock	Michael Watts	Spring 2014	At its most basic level, the course is about the tea leaf. Yet to better understand and better appreciate this ancient drink, the class will explore its mythical origins and more concrete history. We will learn of the different tea rituals and cultures of the early Chinese dynasties and trace their influences in Japan, India, and England. At the end of the course, we will look at the Tea Renaissance taking place today in California and consider the possibility of a tea culture taking full root in our fast-paced, consumer driven society.	
Intro to Chemisry of Cooking	CHEM	Lara Bideyan	Matt Francis	Fall 2014	This is a course on the basic science behind food and cooking. We will study food and cooking related processes from the molecular scale up through the eyes of a scientist. However, all necessary technical background will be introduced in the course, so all majors are welcome.	
Berkeley in the Global Food System	ESPM	Lara Nelson	Alastair Iles	Fall 2014	A weekly gathering to explore and analyze the sociopolitical, economic, environmental implications of our current food system and Berkeley's role in creating an alternative food system. We will be visiting local farms and learning hands-on skills to be a strong voice in the food movement!	
Materials Science Through Food	MSE	Qian Zhang	Mark Asta	Fall 2014	The Materials Science Through Food DeCal was created to introduce the field of materials science and engineering (MSE) to students of various backgrounds. MSE is an incredibly important and widespread field, but few have a basic understanding of what it encompasses. Our hope is that through taking this course, students will gain a good understanding of basic materials science through fun activities involving food.	
Intro to Sustainability and Environmentalism at UC Berkeley	ESPM	Jeff Noven	Gordon Frankie	Fall 2014	The Student Environmental Resource Center, a joint student-organization and administrative office, is intended to combat these problems within the environmentalist community at Berkeley. This class is intended for both incoming and veteran students who wish to navigate the dense landscape of student and administrative environmentalism at Cal. We'll be exploring the huge expanse of activity by interacting directly with those actually working on environmental issues at Berkeley and trying to understand their successes and failures in the bureaucratic jungle to the ends of understanding how we ourselves can model the best behaviors for our own aspirations' ends.	

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Cal Environmental Team	CE	Elly Lin	Khalid Kadir	Fall 2014	This fall, on top of teaching the fundamentals of water treatment and water quality, this class will help you develop your design and presentation skills. You'll engage in lectures, build sessions, and lab testing. Towards the end of the semester, we'll host a mini water filter design and build competition where you'll apply everything you've learned. There won't be any papers nor exams but there will be a few short quizzes and a presentation to prepare for.	
Sustainable Energy for a Greener Tomorrow	ERG	Vishnu Murthy	Daniel Kammen	Fall 2014	This course will give an introduction to energy topics and explore the social, environmental and economic consequences of our carbon-based economy. We depend on energy to fuel our cars and airplanes, grow and transport our food, light our cities, warm our homes, cook our food, and power our machinery, appliances, and electronics. As we continue to deplete our resources (and pollute our air and water in the process), the challenge to satisfy our energy needs continues to mount. How will our generation respond? We will use guest speakers, article presentations, fun projects, involved debates, and films to explore the energy cycle – tracing its origins, distribution, consumption, and waste. We'll also calculate our personal carbon footprint as well as learn about the many opportunities available to become more energy efficient. This course is facilitated by PowerSave Campus interns. The Alliance to Save Energy's PowerSave Campus Program is a student-led initiative that educates the campus community on energy efficiency, achieves energy savings, and encourages the next generation of energy efficiency professionals by building pathways to green careers, realizing measurable energy savings, infusing energy concepts into academic curricula, and promoting energy efficiency outreach.	
The Zero Waste Movement	ESPM	Brian Gialketsis	Kate O'Neill	Fall 2014	Ground your understanding of "waste" systems and infrastructure by learning about limitations with recycling and composting, the magnitude of the international plastic dilemma and the Zero Waste movement striving to debunk "greenwashing" in the industry. This class aims to inspire students to take action on environmental, social and economic challenges related to waste, recycling and resource recovery. By utilizing an interdisciplinary approach, this DeCal will provide both a local and international perspective on sustainable waste management practices.	
Thirst: Global Discourses on Water and Human Rights	IAS	Megan Maurino	Khalid Kadir	Fall 2014	This DeCal, now in its sixth semester, is a solution oriented, multi-disciplinary approach to human rights and water. We will explore the realms of law, public policy, anthropology, gender, governance, sociology, environmental science, economics, history, and philosophy and their relationship to these topics. We will use case studies of both international and local water issues to illustrate the most pressing water and human rights topics of this century. The course hopes to build off of the interests of students and integrate the knowledge that each student brings related to the topic. Goals for the course include building a foundational knowledge of human rights, integrating different themes of water and human rights discourse, participating in informed discussion of human rights topics and water issues, and develop a comprehensive understanding of each week's topic and theme. The pedagogical aim of this course is to generate informed discussion about human rights, water, law, policy, and international development.	
Environmental, Nutritional & Social Aspects Influencing our Food System	NST		Kristen Rasmussen	Fall 2015	This DeCal class will teach students about the current environmental, nutritional and social influences on innovation in the food industry. In Part I, students will explore the history of and current issues in agribusiness and food distribution. In Part II, students will better understand today's typical perspective on nutrition, gathering knowledge from the food system, the changing food trends, media, policy and more. In addition, students will learn about the steps being taken to make nutritious food available for all. Finally, in Part III, students will explore the topics within the issue of labor in the food industry: breaking into food business as a low income entrepreneur, cultivating relationships between workers and their product and addressing issues such as income inequality through food businesses. The course will consist of lectures, discussions and guest speakers from the food industry itself.	