

Environmental Courses 2015-2016

Subject	Course Number	Title	Terms	Units	Grading Basis	UG Reqs	Instructors
AA	115N	The Global Positioning System: Where on Earth are We, and What Time is It?	not given this year	3	Letter (ABCD/NP)	GER:DB-EngrAppSci	
AA	116Q	Electric Automobiles and Aircraft	Aut	3	Letter (ABCD/NP)	GER:DB-EngrAppSci, WAY-AQR, WAY-SMA	Enge, P. (PI)
AA	260	Sustainable Aviation	not given this year	3	Letter (ABCD/NP)		
AA	272C	Global Positioning Systems	Spr	3	Letter (ABCD/NP)		Enge, P. (PI); Van Diggelen, F. (PI)
AFRICAAM	16N	African Americans and Social Movements (CSRE 16N, SOC 16N)	not given this year	3	Letter or Credit/No Credit	GER:DB-SocSci	
AFRICAAM	47	History of South Africa (HISTORY 47)	Aut	3	Letter or Credit/No Credit	GER:DB-SocSci, GER:EC-GlobalCom, WAY-ED, WAY-SI	Campbell, J. (PI)
AFRICAAM	147	History of South Africa (HISTORY 147)	Aut	5	Letter or Credit/No Credit	GER:DB-SocSci, GER:EC-GlobalCom, WAY-ED, WAY-SI	Campbell, J. (PI)
AFRICAAM	204F	The Modern Tradition of Non-Violent Resistance	not given this year	5	Letter (ABCD/NP)		
AFRICAST	109	Running While Others Walk: African Perspectives on Development (AFRICAST 209)	Spr	5	Letter (ABCD/NP)	WAY-ED, WAY-SI	Samoff, J. (PI)
AFRICAST	112	AIDS, Literacy, and Land: Foreign Aid and Development in Africa (AFRICAAM 212, AFRICAST 212)	Win	5	Letter or Credit/No Credit	GER:EC-GlobalCom, WAY-ED, WAY-SI	Samoff, J. (PI)
AFRICAST	141A	Science, Technology, and Medicine in Africa (ANTHRO 141A)	not given this year	4	Letter (ABCD/NP)		
AFRICAST	190	Madagascar Prefield Seminar	Spr	1-2	Satisfactory/No Credit		
AFRICAST	200	The HIV/AIDS Epidemic in Tanzania: A Pre-Field Seminar	Spr	1	Satisfactory/No Credit		Katzenstein, D. (PI)
AFRICAST	209	Running While Others Walk: African Perspectives on Development (AFRICAST 109)	Spr	5	Letter (ABCD/NP)		Samoff, J. (PI)
AMSTUD	1B	Media, Culture, and Society (COMM 1B)	not given this year	5	Letter or Credit/No Credit	GER:DB-SocSci, WAY-A-II, WAY-SI	
AMSTUD	12	Race, Poverty and Disaster Relief	not given this year	1	Satisfactory/No Credit		
AMSTUD	124A	The American West (ARTHIST 152, ENGLISH 124, HISTORY 151, POLISCI 124A)	Spr	5	Letter (ABCD/NP)	GER:DB-Hum, GER:EC-AmerCul, WAY-A-II, WAY-SI	Cain, B. (PI); Fishkin, S. (PI); Freyberg, D. (PI); Kennedy, D. (PI)
AMSTUD	136X	Indigenous Peoples and Environmental Change in the North American West	Spr	5	Letter (ABCD/NP)		
ANTHRO	11SC	Conservation and Development Dilemmas in the Amazon (HUMBIO 18SC)	not given this year	2	Letter (ABCD/NP)		
ANTHRO	34	Animals and Us (ARCHLGY 34)	not given this year	5	Letter (ABCD/NP)		

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ANTHRO	90C	Theory of Ecological and Environmental Anthropology (HUMBIO 118)	Win	5	Letter or Credit/No Credit	GER:DB-SocSci, WAY-ED, WAY-SI	Hazel, M. (PI)
ANTHRO	106	Incas and their Ancestors: Peruvian Archaeology (ANTHRO 206A, ARCHLGY 102B)	Aut	3-5	Letter (ABCD/NP)	GER:DB-SocSci, GER:EC-GlobalCom, WAY: Bautista San ED, WAY-SI	Miguel, S. (PI)
ANTHRO	117	Thinking Through Animals (ANTHRO 217)	not given this year	5	Letter or Credit/No Credit		
ANTHRO	118	Heritage, Environment, and Sovereignty in Hawaii (EARTHSYS 118)	not given this year	4	Letter (ABCD/NP)	WAY-ED	
ANTHRO	119	Zooarchaeology: An Introduction to Faunal Remains (ANTHRO 219, ARCHLGY 119)	not given this year	5	Letter (ABCD/NP)		
ANTHRO	125	Language and the Environment (ANTHRO 225)	Aut	4-5	Letter (ABCD/NP)		Fox, J. (PI)
ANTHRO	130B	Introduction to GIS in Anthropology (ANTHRO 230B)	not given this year	5	Letter (ABCD/NP)		
ANTHRO	141A	Science, Technology, and Medicine in Africa (AFRICAST 141A)	not given this year	4	Letter (ABCD/NP)		
ANTHRO	147	Nature, Culture, Heritage (ANTHRO 247)	not given this year	5	Letter (ABCD/NP)	GER:DB-SocSci, WAY-ED, WAY-SI	
ANTHRO	155	Research Methods in Ecological Anthropology (ANTHRO 255)	Spr	5	Letter or Credit/No Credit	GER:DB-SocSci	
ANTHRO	156B	Environment, Nature and Race (CSRE 156J)	Spr	3-5	Letter or Credit/No Credit		Gardiner, M. (PI)
ANTHRO	160	Social and Environmental Sustainability: The Costa Rican Case (ANTHRO 260)	Spr	3-5	Letter (ABCD/NP)		
ANTHRO	160A	Tragedy of the Commons: Human Ecology of Communal Resources (ANTHRO 260A)	not given this year	5	Letter (ABCD/NP)		
ANTHRO	161	Human Behavioral Ecology (ANTHRO 261, HUMBIO 117H)	not given this year	3-5	Letter (ABCD/NP)	GER:DB-SocSci, WAY-SI, WAY-SMA	
ANTHRO	161A	Human Ecology: Adaptations to Climate and Climate Change (ANTHRO 261A)	not given this year	5	Letter (ABCD/NP)		
ANTHRO	162	Indigenous Peoples and Environmental Problems (ANTHRO 262)	Spr	3-5	Letter (ABCD/NP)	GER:DB-Hum, GER:EC-GlobalCom	Durham, W. (PI)
ANTHRO	164	Natural Resource Extraction: Use and Development: Assessing Policies, Practices and Outcomes (ANTHRO 264)	not given this year	3-5	Letter or Credit/No Credit		
ANTHRO	166	Political Ecology of Tropical Land Use: Conservation, Natural Resource Extraction, and Agribusiness (ANTHRO 266)	not given this year	3-5	Letter (ABCD/NP)		
ANTHRO	168	Everest: Extreme Anthropology	not given this year	3-5	Letter (ABCD/NP)		
ANTHRO	169	The Ecology of Cuisine: Food, Nutrition, and the Evolution of the Human Diet (ANTHRO 269)	not given this year	3-5	Letter (ABCD/NP)	WAY-SI, WAY-SMA	

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ANTHRO	170	Australian Ecosystems: Human Dimensions and Environmental Dynamics (ANTHRO 270, EARTHSYS 172)	not given this year	3	Letter (ABCD/NP)	WAY-SI
ANTHRO	177	Environmental Change and Emerging Infectious Diseases (ANTHRO 277, HUMBIO 114)	not given this year	3-5	Letter or Credit/No Credit	GER:DB-SocSci
ANTHRO	178	Evolution and Conservation in Galapagos (ANTHRO 278)	not given this year	5	Letter (ABCD/NP)	
ANTHRO	183	Ecology, Evolution, and Human Health (ANTHRO 283)	not given this year	3-5	Letter or Credit/No Credit	GER:DB-SocSci, GER:EC-GlobalCom
ANTHRO	219	Zooarchaeology: An Introduction to Faunal Remains (ANTHRO 119, ARCHLGY 119)	not given this year	5	Letter (ABCD/NP)	
ANTHRO	225	Language and the Environment (ANTHRO 125)	Aut	4-5	Letter (ABCD/NP)	Fox, J. (PI)
ANTHRO	228	Indigenous Australia	not given this year	5	Letter (ABCD/NP)	
ANTHRO	230B	Introduction to GIS in Anthropology (ANTHRO 130B)	not given this year	5	Letter (ABCD/NP)	
ANTHRO	247	Nature, Culture, Heritage (ANTHRO 147)	not given this year	5	Letter (ABCD/NP)	
ANTHRO	255	Research Methods in Ecological Anthropology (ANTHRO 155)	Spr	5	Letter or Credit/No Credit	
ANTHRO	260	Social and Environmental Sustainability: The Costa Rican Case (ANTHRO 160)	Spr	3-5	Letter (ABCD/NP)	
ANTHRO	260A	Tragedy of the Commons: Human Ecology of Communal Resources (ANTHRO 160A)	not given this year	5	Letter (ABCD/NP)	
ANTHRO	261	Human Behavioral Ecology (ANTHRO 161, HUMBIO 117H)	not given this year	3-5	Letter (ABCD/NP)	
ANTHRO	261A	Human Ecology: Adaptations to Climate and Climate Change (ANTHRO 161A)	not given this year	5	Letter (ABCD/NP)	
ANTHRO	261B	Human Ecology of the Amazon	not given this year	5	Letter (ABCD/NP)	
ANTHRO	262	Indigenous Peoples and Environmental Problems (ANTHRO 162)	Spr	3-5	Letter (ABCD/NP)	Durham, W. (PI)
ANTHRO	264	Natural Resource Extraction: Use and Development: Assessing Policies, Practices and Outcomes (ANTHRO 164)	not given this year	3-5	Letter or Credit/No Credit	
ANTHRO	266	Political Ecology of Tropical Land Use: Conservation, Natural Resource Extraction, and Agribusiness (ANTHRO 166)	not given this year	3-5	Letter (ABCD/NP)	
ANTHRO	270	Australian Ecosystems: Human Dimensions and Environmental Dynamics (ANTHRO 170, EARTHSYS 172)	not given this year	3	Letter (ABCD/NP)	
ANTHRO	277	Environmental Change and Emerging Infectious Diseases (ANTHRO 177, HUMBIO 114)	not given this year	3-5	Letter or Credit/No Credit	
ANTHRO	278	Evolution and Conservation in Galapagos (ANTHRO 178)	not given this year	5	Letter (ABCD/NP)	
ANTHRO	283	Ecology, Evolution, and Human Health	not given this year	3-5	Letter or Credit/No Credit	

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ANTHRO	302	History of Anthropological Theory, Ecology and Environment	not given this year	5	Letter (ABCD/NP)		
ANTHRO	353	Landscape	not given this year	5	Letter (ABCD/NP)		
ANTHRO	363A	Anthropology of Environmental Conservation	Aut	5	Letter (ABCD/NP)		Durham, W. (PI)
ANTHRO	364	EcoGroup: Current Topics in Ecological, Evolutionary, and Environmental Anthropology	Aut	2-5	Letter (ABCD/NP)		Curran, L. (PI)
ANTHRO	368	Dynamics of Coupled Human-Natural Systems	not given this year	5	Letter or Credit/No Credit		
ANTHRO	372	Urban Ecologies	not given this year	5	Letter (ABCD/NP)		
APPPHYS	79N	Energy Options for the 21st Century	Aut	3	Letter or Credit/No Credit	GER:DB-EngrAppSci, WAY-SMA	Fox, J. (PI); Geballe, T. (PI)
APPPHYS	219	Solid State Physics Problems in Energy Technology	alternate years, given next year	3	Letter or Credit/No Credit		
APPPHYS	294	Cellular Biophysics (BIO 294, BIOPHYS 294)	Aut, alternate years, not given next year	3	Letter or Credit/No Credit		Fisher, D. (PI)
ARCHLGY	12	Peopling of the Globe: Changing Patterns of Land Use and Consumption Over the Last 50,000 Years	not given this year	3-5	Letter (ABCD/NP)	GER:DB-SocSci	
ARCHLGY	15	Archaeology of Environments and Landscapes	not given this year	5	Letter (ABCD/NP)		
ARCHLGY	102B	Incas and their Ancestors: Peruvian Archaeology (ANTHRO 106, ANTHRO 206A)	Aut	3-5	Letter (ABCD/NP)	GER:DB-SocSci, GER:EC-GlobalCom, WAY-Bautista San ED, WAY-SI	Miguel, S. (PI)
ARCHLGY	119	Zooarchaeology: An Introduction to Faunal Remains (ANTHRO 119, ANTHRO 219)	not given this year	5	Letter (ABCD/NP)		
ARCHLGY	126	Archaeobotany (ARCHLGY 226)	Spr	5	Letter (ABCD/NP)	WAY-SMA	Duncan, N. (PI)
ARCHLGY	170	Heritage Ecologies: Heritage, Culture, and the Environment (ARCHLGY 270)	not given this year	3-5	Letter or Credit/No Credit		
ARCHLGY	224	Archaeology of Food: production, consumption and ritual (ARCHLGY 124)	not given this year	3-5	Letter or Credit/No Credit		
ARCHLGY	226	Archaeobotany (ARCHLGY 126)	Spr	5	Letter (ABCD/NP)		Duncan, N. (PI)
ARCHLGY	270	Heritage Ecologies: Heritage, Culture, and the Environment	not given this year	3-5	Letter or Credit/No Credit		
ARTHIST	152	The American West (AMSTUD 124A, ENGLISH 124, HISTORY 151, POLISCI 124A)	Spr	5	Letter (ABCD/NP)	GER:DB-Hum, GER:EC-AmerCul, WAY-A-II, WAY-SI	Cain, B. (PI); Fishkin, S. (PI); Freyberg, D. (PI); Kennedy, D. (PI)
ARTHIST	431	Landscape and Power	not given this year	5	Letter (ABCD/NP)		
ARTSTUDI	12AX	Drawing Intensive: Revisiting Nature	not given this year	2	Satisfactory/No Credit		
ARTSTUDI	153	Ecology of Materials	not given this year	4	Letter or Credit/No Credit	WAY-CE	
ARTSTUDI	153N	Ecology of Materials	not given this year	3	Letter (ABCD/NP)	WAY-A-II, WAY-CE	
ARTSTUDI	157	Art, Invention, Activism in the Public Sphere	Aut	4	Letter or Credit/No Credit		Van Kempen, M. (PI)
ARTSTUDI	184A	Along the Track of the Yellowstone Hotspot: Fusion of Art and Science	not given this year	4	Letter or Credit/No Credit		
ARTSTUDI	253	ECOLOGY OF MATERIALS	Aut	4	Letter or Credit/No Credit	WAY-CE	Berlier, T. (PI)

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BIO	1	Human Evolution and Environment	not given this year	3	Letter or Credit/No Credit	GER: DB-NatSci	
BIO	2N	Ecology and Evolution of Infectious Disease in a Changing World	Spr	3	Letter or Credit/No Credit		Mordecai, E. (PI)
BIO	3	Frontiers in Marine Biology	Aut	1	Satisfactory/No Credit		Thompson, S. (PI)
BIO	3N	Views of a Changing Sea: Literature & Science	Spr	3	Letter or Credit/No Credit	GER: DB-NatSci	Gilly, W. (PI)
BIO	6N	Climate Change: Drivers, Impacts, and Solutions	not given this year	3	Letter (ABCD/NP)	GER: DB-NatSci	
BIO	7N	Introduction to Conservation Photography	Spr	3	Letter or Credit/No Credit	WAY-CE	McConnell, S. (PI)
BIO	8N	Human Evolution	not given this year	3	Letter (ABCD/NP)	GER: DB-NatSci	
BIO	10AX	Conservation Photography	not given this year	2	Satisfactory/No Credit		
BIO	10SC	Natural History, Marine Biology, and Research	Sum	2	Letter or Credit/No Credit		Thompson, S. (PI)
BIO	11N	Biotechnology in Everyday Life	not given this year	3	Letter or Credit/No Credit	GER: DB-NatSci, WAY-SMA	
BIO	11SC	The Ecology of Invasions	not given this year	2	Satisfactory/No Credit		
BIO	12N	Sensory Ecology of Marine Animals	Aut	3	Letter (ABCD/NP)	WAY-SMA	Thompson, S. (PI)
BIO	13N	Environmental Problems and Solutions	not given this year	3	Letter (ABCD/NP)	GER: DB-NatSci	
BIO	15N	Environmental Literacy	not given this year	3	Letter (ABCD/NP)	GER: DB-NatSci, WAY-SMA	
BIO	18Q	Plant Evolutionary Ecology	not given this year	3	Letter (ABCD/NP)		
BIO	21	The Science of the Extreme Life of the Sea	Win	3	Letter (ABCD/NP)		Palumbi, S. (PI); Ary, W. (TA)
BIO	22Q	Infection, Immunity, and Global Health	not given this year	3	Letter or Credit/No Credit	GER: DB-NatSci	
BIO	29N	PARTY WITH TREES	not given this year	3	Letter or Credit/No Credit		
BIO	30	Ecology for Everyone (EARTHSYS 30)	Spr	4	Letter or Credit/No Credit	GER: DB-NatSci, WAY-SMA	Gordon, D. (PI)
BIO	30N	Extinctions in Near Time: Biodiversity loss since the Pleistocene	not given this year	3	Letter (ABCD/NP)	GER: DB-NatSci, WAY-CE, WAY-SMA	
BIO	33N	Conservation Science and Practice	Aut	3	Letter or Credit/No Credit	GER: DB-NatSci, WAY-SMA	Daily, G. (PI)
BIO	34N	Hunger	Aut, alternate years, not given next year	3	Letter or Credit/No Credit	GER: DB-NatSci	Barton, K. (PI) Khalfan, W. (PI); Long, S. (PI); Mudgett, M. (PI); Vitousek, P. (PI)
BIO	43	Plant Biology, Evolution, and Ecology	Spr	5	Letter or Credit/No Credit	GER: DB-NatSci, WAY-SMA	Dirzo, R. (PI); Fukami, T. (PI); Hekmat-Scafe, D. (PI); Malladi, S. (PI); Mochly-Rosen, D. (PI); Perea, R. (PI)
BIO	44Y	Core Plant Biology & Eco Evo Laboratory	Win, Spr	5	Satisfactory/No Credit	WAY-SMA	
BIO	101	Ecology	Aut	4	Letter or Credit/No Credit	GER: DB-NatSci	Seay, K. (PI)
BIO	105A	Ecology and Natural History of Jasper Ridge Biological Preserve (EARTHSYS 105A)	Win	4	Satisfactory/No Credit		Dirzo, R. (PI); Wilber, C. (PI); Penuelas, M. (TA)

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BIO	105B	Ecology and Natural History of Jasper Ridge Biological Preserve (EARTHSYS 105B)	Spr	4	Satisfactory/No Credit		Dirzo, R. (PI); Wilber, C. (PI)
BIO	108	Essential Statistics for Human Biology (HUMBIO 85A)	Spr	4	Letter (ABCD/NP)		Tuljapurkar, S. (PI)
BIO	115	The hidden kingdom - evolution, ecology and diversity of fungi	Win	4	Letter or Credit/No Credit	WAY-SMA	Peay, K. (PI); Seawell, P. (PI)
BIO	116	Ecology of the Hawaiian Islands (EARTHSYS 116)	alternate years, given next year	4	Letter (ABCD/NP)	GER: DB-NatSci	
BIO	117	Biology and Global Change (EARTHSYS 111, ESS 111)	Win	4	Letter or Credit/No Credit	GER: DB-NatSci, WAY-SMA	Arrigo, K. (PI); Vitousek, P. (PI)
BIO	121	Biogeography	not given this year	3	Letter or Credit/No Credit	GER: DB-NatSci, WAY-SMA	
BIO	122	Along the Track of the Yellowstone Hotspot: Fusion of Art and Science	not given this year	4	Letter or Credit/No Credit		
BIO	128	Geographic Impacts of Global Change: Mapping the Stories (EARTHSYS 129)	not given this year	4	Letter or Credit/No Credit		
BIO	136	Evolutionary Paleobiology	not given this year	4	Letter or Credit/No Credit	GER: DB-NatSci, WAY-SMA	
BIO	137	Plant Genetics	Spr	3-4	Letter or Credit/No Credit	GER: DB-NatSci, WAY-SMA	Walbot, V. (PI)
BIO	138	Ecosystem Services: Frontiers in the Science of Valuing Nature (BIO 238)	Spr	3	Letter or Credit/No Credit		Daily, G. (PI)
BIO	141	Biostatistics (STATS 141)	Aut	3-5	Letter or Credit/No Credit	GER:DB-Math, WAY-AQR	Mukherjee, R. (PI)
BIO	143	Evolution	Win	3	Letter or Credit/No Credit	GER: DB-NatSci	Petrov, D. (PI); Rosenberg, N. (PI)
BIO	144	Conservation Biology: A Latin American Perspective (BIO 234, HUMBIO 112)	Spr	3	Letter or Credit/No Credit	GER: DB-NatSci	Dirzo, R. (PI)
BIO	145	Ecology and evolution of animal behavior (BIO 245)	Spr	3	Letter (ABCD/NP)	GER: DB-NatSci	Gordon, D. (PI)
BIO	146	Population Studies	not given this year	1	Satisfactory/No Credit		
BIO	147	Controlling Climate Change in the 21st Century	not given this year	3	Letter (ABCD/NP)	GER: DB-NatSci	
BIO	157	Biochemistry and Molecular Biology of Plants (BIO 257)	not given this year	3-4	Letter or Credit/No Credit	GER: DB-NatSci	
BIO	182	Modeling Cultural Evolution (BIO 282)	not given this year	3	Letter (ABCD/NP)		
BIO	186	Natural History of the Vertebrates (BIO 286)	not given this year	4	Letter or Credit/No Credit		
BIO	196A	Biology Senior Reflection	Aut	3	Letter (ABCD/NP)		McConnell, S. (PI); Todhunter, A. (PI)
BIO	196B	Biology Senior Reflection	Win	3	Letter (ABCD/NP)	WAY-CE	McConnell, S. (PI); Todhunter, A. (PI)
BIO	196C	Biology Senior Reflection	Spr	3	Letter (ABCD/NP)	WAY-CE	McConnell, S. (PI); Todhunter, A. (PI)
BIO	202	Ecological Statistics	alternate years, given next year	3	Letter (ABCD/NP)		
BIO	208	Spanish in Science/Science in Spanish (EARTHSYS 207, LATINAM 207)	Spr	2	Satisfactory/No Credit		Dirzo, R. (PI)
BIO	216	Terrestrial Biogeochemistry (ESS 216)	not given this year, offered occasionally	3	Letter or Credit/No Credit		

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BIO	227	Foundations of Community Ecology	Aut	2	Letter (ABCD/NP)		Fukami, T. (PI)
BIO	234	Conservation Biology: A Latin American Perspective (BIO 144, HUMBIO 112)	Spr	3	Letter or Credit/No Credit		Dirzo, R. (PI)
BIO	238	Ecosystem Services: Frontiers in the Science of Valuing Nature (BIO 138)	Spr	3	Letter or Credit/No Credit		Daily, G. (PI)
BIO	245	Ecology and evolution of animal behavior (BIO 145)	Spr	3	Letter (ABCD/NP)		Gordon, D. (PI)
BIO	247	Controlling Climate Change in the 21st Century	not given this year	3	Letter (ABCD/NP)		
BIO	257	Biochemistry and Molecular Biology of Plants (BIO 157)	not given this year	3-4	Letter or Credit/No Credit		
BIO	274S	Hopkins Microbiology Course (BIOHOPK 274, CEE 274S, ESS 253S)	Sum	3-12	Letter or Credit/No Credit		
BIO	286	Natural History of the Vertebrates (BIO 186)	not given this year	4	Letter or Credit/No Credit		
BIO	312	Ethical Issues in Ecology and Evolutionary Biology	Aut	1	Satisfactory/No Credit		Ehrlich, P. (PI); Friedman, D. (TA)
BIO	326	Foundations in Biogeography	not given this year	2	Letter or Credit/No Credit		
BIO	355	Ecology and Conservation of the Brazilian Cerrado: a neglected Latin American Ecosystem	Aut, offered once only	2	Letter or Credit/No Credit		Fernandes, G. (PI)
BIO	356	Ecology & Conservation beyond Amazon and the Andes: The Rupestrian Grasslands of Tropical Mountains	Win, offered once only	2	Letter or Credit/No Credit		Fernandes, G. (PI)
BIO	375	Field Ecology & Conservation	not given this year, given next year	4	Satisfactory/No Credit		
BIO	459	Frontiers in Interdisciplinary Biosciences (BIOC 459, BIOC 459, CHEM 459, CHEMENG 459, PSYCH 459)	Aut, Win, Spr	1	Medical Satisfactory/No Credit		Robertson, C. (PI)
BIOC	158	Genomics, Bioinformatics and Medicine	not given this year	3	Medical Option (Med-Ltr-CR/NC)	GER: DB-NatSci, WAY-SMA	
BIOC	459	Frontiers in Interdisciplinary Biosciences (BIO 459, BIOC 459, CHEM 459, CHEMENG 459, PSYCH 459)	Aut, Win, Spr	1	Medical Satisfactory/No Credit		Robertson, C. (PI)
BIOE	44	Fundamentals for Engineering Biology Lab	Aut	4	Letter (ABCD/NP)	WAY-SMA	Qi, S. (PI); Shih, J. (PI)
BIOE	80	Introduction to Bioengineering (Engineering Living Matter) (ENGR 80)	Spr	4	Letter (ABCD/NP)	GER:DB-EngrAppSci, WAY-FR	Endy, A. (PI); Liphardt, J. (PI)
BIOE	372	Design for Service Innovation (HRP 274, MED 274)	not given this year	4	Medical Option (Med-Ltr-CR/NC)		
BIOE	459	Frontiers in Interdisciplinary Biosciences (BIO 459, BIOC 459, CHEM 459, CHEMENG 459, PSYCH 459)	Aut, Win, Spr	1	Medical Satisfactory/No Credit		Robertson, C. (PI)
BIOHOPK	43	Plant Biology, Evolution, and Ecology	Spr	5	Letter or Credit/No Credit	GER: DB-NatSci	Micheli, F. (PI); Watanabe, J. (PI)
BIOHOPK	44Y	Core Laboratory in Plant Biology, Ecology and Evolution	Spr	5	Letter or Credit/No Credit	GER: DB-NatSci, WAY-SMA	Micheli, F. (PI); Watanabe, J. (PI)
BIOHOPK	150H	Ecological Mechanics (BIOHOPK 250H)	Spr	3	Letter or Credit/No Credit	WAY-SMA	Denny, M. (PI)
BIOHOPK	152H	Physiology of Global Change (BIOHOPK 252H)	not given this year	2	Letter or Credit/No Credit		

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		Current Topics and Concepts in Quantitative Fish Dynamics and Fisheries Management (BIOHOPK 253H)	not given this year	1	Satisfactory/No Credit		
BIOHOPK	153H	Developmental Biology and Evolution (BIOHOPK 255H)	Win	4	Letter or Credit/No Credit	WAY-SMA	Lowe, C. (PI)
BIOHOPK	160H	Developmental Biology in the Ocean: Diverse Embryonic & Larval Strategies of marine invertebrates (BIOHOPK 260H)	not given this year	5-8	Letter or Credit/No Credit		
BIOHOPK	161H	Invertebrate Zoology (BIOHOPK 261H)	Win	5	Letter or Credit/No Credit	GER: DB-NatSci, WAY-SMA	Watanabe, J. (PI)
BIOHOPK	162H	Comparative Animal Physiology (BIOHOPK 262H)	Spr	5	Letter or Credit/No Credit	GER: DB-NatSci	Block, B. (PI)
BIOHOPK	163H	Oceanic Biology (BIOHOPK 263H)	Win	4	Letter or Credit/No Credit	GER: DB-NatSci, WAY-SMA	Denny, M. (PI); Somero, G. (PI)
BIOHOPK	165H	The Extreme Life of the Sea (BIOHOPK 265H)	not given this year	3	Letter or Credit/No Credit		
BIOHOPK	166H	Molecular Ecology (BIOHOPK 266H)	not given this year	5	Letter or Credit/No Credit	GER: DB-NatSci	
BIOHOPK	167H	Nerve, Muscle, and Synapse (BIOHOPK 267H)	Spr	5	Letter or Credit/No Credit	GER: DB-NatSci	Gilly, W. (PI)
BIOHOPK	168H	Disease Ecology: from parasites evolution to the socio-economic impacts of pathogens on nations (BIOHOPK 268H)	Spr	3	Letter or Credit/No Credit		De Leo, G. (PI)
BIOHOPK	172H	Marine Ecology: From Organisms to Ecosystems (BIOHOPK 272H)	Win	5	Letter or Credit/No Credit	GER: DB-NatSci, WAY-SMA	Micheli, F. (PI)
BIOHOPK	173H	Marine Conservation Biology (BIOHOPK 273H)	Spr	4	Letter or Credit/No Credit		Crowder, L. (PI)
BIOHOPK	174H	Experimental Design and Probability (BIOHOPK 274H)	Win, Spr	3	Letter or Credit/No Credit	GER: DB-NatSci, GER:DB-Math, WAY-AQR, WAY-FR	Watanabe, J. (PI)
BIOHOPK	177H	Dynamics and Management of Marine Populations (BIOHOPK 277H)	Win	4	Letter or Credit/No Credit	WAY-AQR, WAY-FR	De Leo, G. (PI)
BIOHOPK	179H	Physiological Ecology of Marine Megafauna (BIOHOPK 279H)	given next year	3	Letter or Credit/No Credit	WAY-SMA	
BIOHOPK	180H	Air and Water (BIOHOPK 280H)	not given this year	3	Letter or Credit/No Credit		
BIOHOPK	182H	Stanford at Sea (BIOHOPK 323H, EARTHYSYS 323, EESS 323)	alternate years, given next year	16	Letter (ABCD/NP)	GER: DB-NatSci, WAY-SMA	
BIOHOPK	184H	Holistic Biology (BIOHOPK 284H)	not given this year	16	Letter or Credit/No Credit	GER: DB-NatSci	
BIOHOPK	185H	Ecology and Conservation of Kelp Forest Communities (BIOHOPK 285H)	Sum	5	Letter (ABCD/NP)	WAY-SMA	
BIOHOPK	187H	Sensory Ecology (BIOHOPK 287H)	Win	4	Letter or Credit/No Credit		Thompson, S. (PI)
BIOHOPK	250H	Ecological Mechanics (BIOHOPK 150H)	Spr	3	Letter or Credit/No Credit		Denny, M. (PI)
BIOHOPK	252H	Physiology of Global Change (BIOHOPK 152H)	not given this year	2	Letter or Credit/No Credit		
BIOHOPK	253H	Current Topics and Concepts in Quantitative Fish Dynamics and Fisheries Management (BIOHOPK 153H)	not given this year	1	Satisfactory/No Credit		
BIOHOPK	255H	Developmental Biology and Evolution (BIOHOPK 155H)	Win	4	Letter or Credit/No Credit		Lowe, C. (PI)

Environmental Courses 2015-2016

BIOHOPK	260H	Developmental Biology in the Ocean: Diverse Embryonic & Larval Strategies of marine invertebrates (BIOHOPK 160H)	not given this year	5-8	Letter or Credit/No Credit	
BIOHOPK	261H	Invertebrate Zoology (BIOHOPK 161H)	Win	5	Letter or Credit/No Credit	Watanabe, J. (PI)
BIOHOPK	262H	Comparative Animal Physiology (BIOHOPK 162H)	Spr	5	Letter or Credit/No Credit	Block, B. (PI)
BIOHOPK	263H	Oceanic Biology (BIOHOPK 163H)	Win	4	Letter or Credit/No Credit	
BIOHOPK	264H	POPULATION GENOMICS	not given this year	1-2	Letter or Credit/No Credit	
BIOHOPK	266H	Molecular Ecology (BIOHOPK 166H)	not given this year	5	Letter or Credit/No Credit	
BIOHOPK	267H	Nerve, Muscle, and Synapse (BIOHOPK 167H)	Spr	5	Letter or Credit/No Credit	Gilly, W. (PI)
BIOHOPK	268H	Disease Ecology: from parasites evolution to the socio-economic impacts of pathogens on nations (BIOHOPK 168H)	Spr	3	Letter or Credit/No Credit	De Leo, G. (PI)
BIOHOPK	272H	Marine Ecology: From Organisms to Ecosystems (BIOHOPK 172H)	Win	5	Letter or Credit/No Credit	Micheli, F. (PI)
BIOHOPK	273H	Marine Conservation Biology (BIOHOPK 173H)	Spr	4	Letter or Credit/No Credit	Crowder, L. (PI)
BIOHOPK	274	Hopkins Microbiology Course (BIO 274S, CEE 274S, ESS 253S)	Sum	3-12	Letter or Credit/No Credit	
BIOHOPK	274H	Experimental Design and Probability (BIOHOPK 174H)	Win, Spr	3	Letter or Credit/No Credit	Watanabe, J. (PI)
BIOHOPK	275H	Synthesis in Ecology	given next year	2	Letter or Credit/No Credit	
BIOHOPK	276H	Estimates and Errors: The Theory of Scientific Measurement	not given this year	3	Letter or Credit/No Credit	
BIOHOPK	277H	Dynamics and Management of Marine Populations (BIOHOPK 177H)	Win	4	Letter or Credit/No Credit	De Leo, G. (PI)
BIOHOPK	279H	Physiological Ecology of Marine Megafauna (BIOHOPK 179H)	given next year	3	Letter or Credit/No Credit	
BIOHOPK	280	Short Course on Ocean Policy	Sum	3	Letter or Credit/No Credit	
BIOHOPK	280H	Air and Water (BIOHOPK 180H)	not given this year	3	Letter or Credit/No Credit	
BIOHOPK	284H	Holistic Biology (BIOHOPK 184H)	not given this year	16	Letter or Credit/No Credit	
BIOHOPK	285H	Ecology and Conservation of Kelp Forest Communities (BIOHOPK 185H)	Sum	5	Letter (ABCD/NP)	
BIOHOPK	287H	Sensory Ecology (BIOHOPK 187H)	Win	4	Letter or Credit/No Credit	Thompson, S. (PI)
BIOHOPK	320H	Physical Biology	Aut	3	Letter or Credit/No Credit	Denny, M. (PI); Prakash, M. (PI)
BIOHOPK	323H	Stanford at Sea (BIOHOPK 182H, EARTHSYS 323, EESS 323)	alternate years, given next year	16	Letter (ABCD/NP)	
BIOMEDIN	156	Economics of Health and Medical Care (BIOMEDIN 256, ECON 126, HRP 256)	Aut	5	Medical Option (Med-Ltr-CR/NC) WAY-SI	Bhattacharya, J. (PI)
BIOMEDIN	256	Economics of Health and Medical Care (BIOMEDIN 156, ECON 126, HRP 256)	Aut	5	Medical Option (Med-Ltr-CR/NC)	Bhattacharya, J. (PI)
CEE	1	Introduction to Environmental Systems Engineering	Spr	1	Satisfactory/No Credit	Hildemann, L. (PI)
CEE	10SC	Green Buildings	not given this year	2	Satisfactory/No Credit	

Environmental Courses 2015-2016

CEE	15SC	Energy in the West	not given this year	2	Satisfactory/No Credit	
CEE	16SC	Energy in the Southwest (ENERGY 11SC, POLISCI 25SC)	Sum	2	Satisfactory/No Credit	Benson, S. (PI); Cain, B. (PI); Freyberg, D. (PI)
CEE	29N	Managing Natural Disaster Risk	not given this year	3	Letter (ABCD/NP)	WAY-AQR
CEE	48N	Managing Complex, Global Projects	Win	3	Letter (ABCD/NP)	Levitt, R. (PI)
CEE	50N	Multi-Disciplinary Perspectives on a Large Urban Estuary: San Francisco Bay (EARTHSYS 49N, ESS 49N)	alternate years, given next year	3	Letter or Credit/No Credit	
CEE	63	Weather and Storms (CEE 263C)	Aut	3	Letter or Credit/No Credit	GER: DB-NatSci, WAY-SMA Jacobson, M. (PI)
CEE	64	Air Pollution and Global Warming: History, Science, and Solutions (CEE 263D)	Win	3	Letter or Credit/No Credit	GER: DB-NatSci, WAY-SMA Jacobson, M. (PI)
CEE	70	Environmental Science and Technology (ENGR 90)	Win, Sum	3	Letter or Credit/No Credit	GER:DB-EngrAppSci, WAY-AQR Kopperud, R. (PI)
CEE	70A	Environmental Science and Technology: Current Events	not given this year	1	Letter or Credit/No Credit	
CEE	70N	Water, Public Health, and Engineering	Aut	3	Letter or Credit/No Credit	GER:DB-EngrAppSci, WAY-AQR, WAY-SMA Davis, J. (PI)
CEE	73	Foundations of Water Science and Engineering	Sum	3	Letter or Credit/No Credit	Fong, D. (PI); Pieja, A. (PI); Robertson, A. (PI)
CEE	100	Managing Sustainable Building Projects	Aut	4	Letter (ABCD/NP)	GER:DB-EngrAppSci Fischer, M. (PI)
CEE	101B	Mechanics of Fluids	Spr	4	Letter or Credit/No Credit	GER:DB-EngrAppSci Dabiri, J. (PI)
CEE	101D	Computations in Civil and Environmental Engineering (CEE 201D)	Aut	3	Letter or Credit/No Credit	Kitanidis, P. (PI)
CEE	107A	Understanding Energy (CEE 207A, EARTHSYS 103)	Aut, Spr	3	Letter or Credit/No Credit	GER:DB-EngrAppSci Ginnebaugh, D. (PI); Grubert, E. (PI); Knapp, K. (PI); Woodward, J. (PI)
CEE	107F	Understanding Energy -- Field Trips (CEE 207F)	Aut, Spr	1	Letter or Credit/No Credit	Knapp, K. (PI)
CEE	107S	Energy Resources: Fuels and Tools (CEE 207S)	Sum	3	Letter or Credit/No Credit	Grubert, E. (PI); Knapp, K. (PI)
CEE	107W	Understanding Energy -- Workshop (CEE 207W)	Aut, Spr	1	Letter or Credit/No Credit	Ginnebaugh, D. (PI); Grubert, E. (PI); Knapp, K. (PI); Woodward, J. (PI)
CEE	109	Creating a Green Student Workforce to Help Implement Stanford's Sustainability Vision (EARTHSYS 109, ENVRINST 109)	not given this year	2	Satisfactory/No Credit	
CEE	111	Multidisciplinary Modeling and Analysis	not given this year	4	Letter or Credit/No Credit	GER:DB-EngrAppSci
CEE	112A	Industry Applications of Virtual Design & Construction	Win	2-4	Letter (ABCD/NP)	Kam, C. (PI)
CEE	112B	Industry Applications of Virtual Design & Construction (CEE 212B)	Spr	2-4	Letter (ABCD/NP)	Kam, C. (PI)
CEE	112C	Industry Applications of Virtual Design & Construction (CEE 212C)	not given this year	2-4	Letter (ABCD/NP)	

Environmental Courses 2015-2016

CEE	113	Patterns of Sustainability (CEE 213)	offered occasionally	1-4	Letter (ABCD/NP)		
CEE	124	Sustainable Development Studio	Aut, Win, Spr	1-5	Letter or Credit/No Credit		Barton, J. (PI), et al.
CEE	125	Defining Smart Cities: Visions of Urbanism for the 21st Century (CEE 225, URBANST 174)	Aut	1	Satisfactory/No Credit		Chan, D. (PI); Hsu, K. (PI); Law, K. (PI)
CEE	126	International Urbanization Seminar: Cross-Cultural Collaboration for Sustainable Urban Development (EARTHSYS 138, IPS 274, URBANST 145)	Aut	4-5	Letter or Credit/No Credit		Chan, D. (PI); Hsu, K. (PI)
CEE	129S	Climate Change Adaptation in the Coastal Built Environment (CEE 229S)	not given this year	1	Satisfactory/No Credit		
CEE	131B	Financial Management of Sustainable Urban Systems	Win	3	Letter or Credit/No Credit		Eriksson, K. (PI)
CEE	143	Predicting and Measuring Building Energy Use	not given this year	2-3	Letter or Credit/No Credit		
CEE	151	Negotiation (CEE 251, EARTH 251)	Spr	3	Letter (ABCD/NP)		Christensen, S. (PI)
CEE	155	Introduction to Sensing Networks for CEE (CEE 255)	Win	3-4	Letter or Credit/No Credit		Rajagopal, R. (PI)
CEE	156	Building Systems (CEE 256)	Win	4	Letter (ABCD/NP)	GER:DB-EngrAppSci	Kolderup, E. (PI)
CEE	161A	Rivers, Streams, and Canals (CEE 264A)	Spr	3-4	Letter (ABCD/NP)	GER:DB-EngrAppSci	Fong, D. (PI)
CEE	163E	International Climate Negotiations: Unpacking the Road to Paris (CEE 263E, EARTHSYS 163E, EARTHSYS 263E)	Aut	3	Letter (ABCD/NP)		Nevle, R. (PI); Strong, A. (PI); Tangri, N. (PI)
CEE	163F	Groundwork for COP21 (CEE 263F, EARTHSYS 163F, EARTHSYS 263F)	Aut	1	Satisfactory/No Credit		Cina, S. (PI); Nevle, R. (PI); Strong, A. (PI); Tangri, N. (PI)
CEE	164	Introduction to Physical Oceanography (CEE 262D, EARTHSYS 164, ESS 148)	Win	4	Letter (ABCD/NP)	GER: DB-NatSci	Fong, D. (PI)
CEE	165C	Water Resources Management (CEE 265C)	Sum	3	Letter or Credit/No Credit		Findikakis, A. (PI)
CEE	166A	Watersheds and Wetlands (CEE 266A)	Aut	3	Letter or Credit/No Credit	GER:DB-EngrAppSci	MacVean, L. (PI)
CEE	166B	Floods and Droughts, Dams and Aqueducts (CEE 266B)	Win	3	Letter or Credit/No Credit	GER:DB-EngrAppSci	MacVean, L. (PI)
CEE	166D	Water Resources and Water Hazards Field Trips (CEE 266D)	given next year	2	Satisfactory/No Credit		
CEE	169	Environmental and Water Resources Engineering Design	alternate years, given next year	5	Letter (ABCD/NP)		
CEE	171	Environmental Planning Methods	Win	3	Letter or Credit/No Credit	GER:DB-EngrAppSci	Ortolano, L. (PI)
CEE	171F	New Indicators of Well-Being and Sustainability (CEE 271F)	Sum	3	Letter or Credit/No Credit		Laurent, E. (PI)
CEE	172	Air Quality Management	Spr	3	Letter or Credit/No Credit	GER:DB-EngrAppSci	Hildemann, L. (PI)
CEE	172A	Indoor Air Quality (CEE 278C)	Aut	2-3	Letter or Credit/No Credit		Hildemann, L. (PI)
CEE	172S	Green House Gas Mitigation (CEE 272S)	not given this year	1-3	Letter or Credit/No Credit		
CEE	174A	Providing Safe Water for the Developing and Developed World	Aut	3	Letter or Credit/No Credit		Mitch, W. (PI)

Environmental Courses 2015-2016

CEE	174B	Wastewater Treatment: From Disposal to Resource Recovery	Win	3	Letter or Credit/No Credit		Mitch, W. (PI)
CEE	175A	California Coast: Science, Policy, and Law (CEE 275A, EARTHSYS 175, EARTHSYS 275)	Spr	3-4	Letter or Credit/No Credit		Boehm, A. (PI); Sivas, D. (PI)
CEE	175S	Environmental Entrepreneurship and Innovation (CEE 275S)	Sum	2	Satisfactory/No Credit		
CEE	176A	Energy Efficient Buildings	Win	3-4	Letter or Credit/No Credit	GER:DB-EngrAppSci	Masters, G. (PI)
CEE	176B	Electric Power: Renewables and Efficiency	Spr	3-4	Letter or Credit/No Credit	GER:DB-EngrAppSci	Masters, G. (PI)
CEE	176C	Energy Storage Integration - Vehicles, Renewables, and the Grid (CEE 276C)	Aut	3	Letter or Credit/No Credit		Straubel, J. (PI)
CEE	177	Aquatic Chemistry and Biology	Aut	4	Letter or Credit/No Credit	GER:DB-EngrAppSci	Criddle, C. (PI)
CEE	177L	Smart Cities & Communities (CEE 277L)	Sum	2-3	Letter or Credit/No Credit		Williams, P. (PI)
CEE	177S	Design for a Sustainable World (CEE 277S)	Spr	1-5	Letter or Credit/No Credit		
CEE	177X	Current Topics in Sustainable Engineering (CEE 277X)	Win	1-3	Satisfactory/No Credit		Davis, J. (PI)
CEE	178	Introduction to Human Exposure Analysis (CEE 276)	Spr	3	Letter (ABCD/NP)	GER:DB-EngrAppSci, WAY-AQR, WAY-SMA	Kopperud, R. (PI)
CEE	179A	Water Chemistry Laboratory (CEE 273A)	Win	3	Letter or Credit/No Credit		Leckie, J. (PI)
CEE	179C	Environmental Engineering Design	Spr, alternate years, not given next year	5	Letter (ABCD/NP)		Robertson, A. (PI)
CEE	179S	Seminar: Issues in Environmental Science, Technology and Sustainability (CEE 279S, EARTHSYS 179S, ESS 179S)	Sum	1-2	Satisfactory/No Credit		Robertson, A. (PI)
CEE	179X	Sustainable Urban System Seminar (CEE 279X)	Spr	1	Satisfactory/No Credit		Leckie, J. (PI)
CEE	195	Fundamentals of Structural Geology (GS 111)	Win	3	Letter or Credit/No Credit	WAY-FR, WAY-SMA	Pollard, D. (PI)
CEE	196	Engineering Geology and Global Change (GS 115)	not given this year	3	Letter or Credit/No Credit	GER: DB-NatSci	
CEE	201D	Computations in Civil and Environmental Engineering (CEE 101D)	Aut	3	Letter or Credit/No Credit		Kitanidis, P. (PI)
CEE	206	Decision Analysis for Civil and Environmental Engineers	Win	3	Letter or Credit/No Credit		Kiremidjian, A. (PI); Ginnebaugh, D. (PI); Grubert, E. (PI); Knapp, K. (PI); Woodward, J. (PI)
CEE	207A	Understanding Energy (CEE 107A, EARTHSYS 103)	Aut, Spr	3	Letter or Credit/No Credit		
CEE	207F	Understanding Energy -- Field Trips (CEE 107F)	Aut, Spr	1	Letter or Credit/No Credit		Knapp, K. (PI)
CEE	207S	Energy Resources: Fuels and Tools (CEE 107S)	Sum	3	Letter or Credit/No Credit		Grubert, E. (PI); Knapp, K. (PI)
CEE	207W	Understanding Energy -- Workshop (CEE 107W)	Aut, Spr	1	Letter or Credit/No Credit		Ginnebaugh, D. (PI); Grubert, E. (PI); Knapp, K. (PI)
CEE	211	Multidisciplinary Modeling and Analysis	not given this year	4	Letter or Credit/No Credit		
CEE	213	Patterns of Sustainability (CEE 113)	offered occasionally	1-4	Letter (ABCD/NP)		
CEE	217	Renewable Energy Infrastructure	Win	2	Letter (ABCD/NP)		

Environmental Courses 2015-2016

CEE	223	Materials for Sustainable Urban Systems	not given this year	3	Letter (ABCD/NP)	
CEE	224A	Sustainable Development Studio	Aut, Win, Spr, Sum	1-5	Letter or Credit/No Credit	Barton, J. (PI), et al.
CEE	225	Defining Smart Cities: Visions of Urbanism for the 21st Century (CEE 125, URBANST 174)	Aut	1	Satisfactory/No Credit	Chan, D. (PI); Hsu, K. (PI); Law, K. (PI)
CEE	226	Life Cycle Assessment for Complex Systems	Aut	3-4	Letter (ABCD/NP)	Lepech, M. (PI)
CEE	226E	Advanced Topics in Integrated, Energy-Efficient Building Design	Spr	2-3	Letter or Credit/No Credit	Rumsey, P. (PI)
CEE	227	Global Project Finance	Win	3-5	Letter (ABCD/NP)	Bennon, M. (PI)
CEE	229S	Climate Change Adaptation in the Coastal Built Environment (CEE 129S)	not given this year	1	Satisfactory/No Credit	
CEE	243	Predicting and Measuring Building Energy Use	not given this year	2-3	Letter or Credit/No Credit	
CEE	251	Negotiation (CEE 151, EARTH 251)	Spr	3	Letter (ABCD/NP)	Christensen, S. (PI)
CEE	255	Introduction to Sensing Networks for CEE (CEE 155)	Win	3-4	Letter or Credit/No Credit	Rajagopal, R. (PI)
CEE	256	Building Systems (CEE 156)	Win	4	Letter (ABCD/NP)	Kolderup, E. (PI)
CEE	260A	Physical Hydrogeology (ESS 220)	Aut	4	Letter (ABCD/NP)	Gorelick, S. (PI)
CEE	260B	Surface and Near-Surface Hydrologic Response (GS 237)	not given this year	3	Letter or Credit/No Credit	
CEE	260C	Contaminant Hydrogeology and Reactive Transport (ESS 221, GS 225)	Win	4	Letter or Credit/No Credit	Gorelick, S. (PI); Maher, K. (PI)
CEE	261	Physics of Wind Energy (ME 262)	Win	3	Letter or Credit/No Credit	Dabiri, J. (PI)
CEE	262A	Hydrodynamics	Aut	3-4	Letter or Credit/No Credit	Fringer, O. (PI)
CEE	262B	Transport and Mixing in Surface Water Flows	Win	3-4	Letter or Credit/No Credit	
CEE	262C	Modeling Environmental Flows	Win	3	Letter or Credit/No Credit	Fringer, O. (PI)
CEE	262D	Introduction to Physical Oceanography (CEE 164, EARTHSYS 164, ESS 148)	Win	4	Letter (ABCD/NP)	Fong, D. (PI)
CEE	262E	Lakes and Reservoirs	not given this year	2-3	Letter or Credit/No Credit	
CEE	262F	Ocean Waves	Spr	3	Letter or Credit/No Credit	Rogers, J. (PI)
CEE	263A	Air Pollution Modeling	Spr	3-4	Letter or Credit/No Credit	Jacobson, M. (PI)
CEE	263B	Numerical Weather Prediction	alternate years, given next year	3-4	Letter or Credit/No Credit	
CEE	263C	Weather and Storms (CEE 63)	Aut	3	Letter or Credit/No Credit	Jacobson, M. (PI)
CEE	263D	Air Pollution and Global Warming: History, Science, and Solutions (CEE 64)	Win	3	Letter or Credit/No Credit	Jacobson, M. (PI)
CEE	263E	International Climate Negotiations: Unpacking the Road to Paris (CEE 163E, EARTHSYS 163E, EARTHSYS 263E)	Aut	3	Letter (ABCD/NP)	Nevle, R. (PI); Strong, A. (PI); Tangri, N. (PI)
CEE	263F	Groundwork for COP21 (CEE 163F, EARTHSYS 163F, EARTHSYS 263F)	Aut	1	Satisfactory/No Credit	Cina, S. (PI); Nevle, R. (PI); Strong, A. (PI); Tangri, N. (PI)
CEE	263S	Atmosphere/Energy Seminar	Aut, Win, Spr	1	Satisfactory/No Credit	Jacobson, M. (PI)

Environmental Courses 2015-2016

CEE	264	Sediment Transport Modeling Rivers, Streams, and Canals	Spr	3	Letter or Credit/No Credit	Fringer, O. (PI)
CEE	264A	(CEE 161A)	Spr	3-4	Letter (ABCD/NP)	Fong, D. (PI)
CEE	265A	Sustainable Water Resources Development	Spr	3	Letter or Credit/No Credit	Ortolano, L. (PI)
CEE	265C	Water Resources Management (CEE 165C)	Sum	3	Letter or Credit/No Credit	Findikakis, A. (PI)
CEE	265D	Water and Sanitation in Developing Countries	Spr	1-3	Letter (ABCD/NP)	Davis, J. (PI)
CEE	266A	Watersheds and Wetlands (CEE 166A)	Aut	3	Letter or Credit/No Credit	MacVean, L. (PI)
CEE	266B	Floods and Droughts, Dams and Aqueducts (CEE 166B)	Win	3	Letter or Credit/No Credit	MacVean, L. (PI)
CEE	266D	Water Resources and Water Hazards Field Trips (CEE 166D)	given next year	2	Satisfactory/No Credit	
CEE	268	Groundwater Flow	Win	3-4	Letter or Credit/No Credit	Kitanidis, P. (PI)
CEE	269A	Environmental Fluid Mechanics and Hydrology Seminar	Aut	1	Satisfactory/No Credit	Kitanidis, P. (PI)
CEE	269B	Environmental Fluid Mechanics and Hydrology Seminar	Win	1	Satisfactory/No Credit	Fringer, O. (PI)
CEE	269C	Environmental Fluid Mechanics and Hydrology	Spr	1	Satisfactory/No Credit	Ortolano, L. (PI)
CEE	270	Movement and Fate of Organic Contaminants in Waters	Aut	3	Letter (ABCD/NP)	Luthy, R. (PI)
CEE	270B	Environmental Organic Reaction Chemistry	Spr	2-3	Letter or Credit/No Credit	Mitch, W. (PI)
CEE	271A	Physical and Chemical Treatment Processes	Win	3	Letter (ABCD/NP)	Luthy, R. (PI); Choi, Y. (TA)
CEE	271B	Environmental Biotechnology	Win	4	Letter or Credit/No Credit	Criddle, C. (PI); Strong, N. (TA)
CEE	271C	Physicochemical Processes and Organic Contaminants	not given this year	3	Letter or Credit/No Credit	
CEE	271D	Introduction to Wastewater Treatment Process Modeling	not given this year	2	Letter or Credit/No Credit	
CEE	271F	New Indicators of Well-Being and Sustainability (CEE 171F)	Sum	3	Letter or Credit/No Credit	Laurent, E. (PI)
CEE	271Y	Environmental Policy Design and Implementation in the U.S and Asia	not given this year	2	Letter or Credit/No Credit	
CEE	272	Coastal Contaminants	Aut	3-4	Letter or Credit/No Credit	Boehm, A. (PI)
CEE	272R	Modern Power Systems Engineering	Spr	3	Letter or Credit/No Credit	Rajagopal, R. (PI)
CEE	272S	Green House Gas Mitigation (CEE 172S)	not given this year	1-3	Letter or Credit/No Credit	
CEE	272T	SmartGrids and Advanced Power Systems Seminar (EE 292T)	Aut, Win, Spr	1-2	Satisfactory/No Credit	Rajagopal, R. (PI)
CEE	273	Aquatic Chemistry	Aut	3	Letter (ABCD/NP)	Leckie, J. (PI)
CEE	273A	Water Chemistry Laboratory (CEE 179A)	Win	3	Letter or Credit/No Credit	Leckie, J. (PI)
CEE	273D	Wastewater Treatment Process Simulators and Their Use for Emerging Technologies	not given this year	2	Satisfactory/No Credit	
CEE	274A	Environmental Microbiology I (CHEMENG 174, CHEMENG 274)	Aut	3	Letter or Credit/No Credit	Spormann, A. (PI)
CEE	274B	Microbial Bioenergy Systems (CHEMENG 456)	Win	3	Letter or Credit/No Credit	Spormann, A. (PI)

Environmental Courses 2015-2016

CEE	274D	Pathogens and Disinfection	given next year	3	Letter (ABCD/NP)	
CEE	274P	Environmental Health Microbiology Lab	alternate years, given next year	3-4	Letter (ABCD/NP)	
CEE	274S	Hopkins Microbiology Course (BIO 274S, BIOHOPK 274, ESS 253S)	Sum	3-12	Letter or Credit/No Credit	
CEE	275A	California Coast: Science, Policy, and Law (CEE 175A, EARTHSYS 175, EARTHSYS 275)	Spr	3-4	Letter or Credit/No Credit	Boehm, A. (PI); Sivas, D. (PI)
CEE	275B	Process Design for Environmental Biotechnology	not given this year	3	Letter (ABCD/NP)	
CEE	275C	Water, Sanitation and Health	not given this year	1-4	Letter or Credit/No Credit	
CEE	275K	The Practice of Environmental Consulting	Win	2	Satisfactory/No Credit	Kavanaugh, M. (PI)
CEE	275S	Environmental Entrepreneurship and Innovation (CEE 175S)	Sum	2	Satisfactory/No Credit	
CEE	276	Introduction to Human Exposure Analysis (CEE 178)	Spr	3	Letter (ABCD/NP)	Kopperud, R. (PI)
CEE	276C	Energy Storage Integration - Vehicles, Renewables, and the Grid (CEE 176C)	Aut	3	Letter or Credit/No Credit	Straubel, J. (PI)
CEE	277C	Environmental Governance (ENVRES 250)	Win, alternate years, not given next year	3	Letter or Credit/No Credit	Strong, A. (PI); Ulibarri, N. (PI)
CEE	277D	Water, Health & Development in Africa	not given this year	1	Satisfactory/No Credit	
CEE	277F	Advanced Field Methods in Water, Health and Development	Aut, Win, Spr, Sum	1-10	Satisfactory/No Credit	Davis, J. (PI)
CEE	277L	Smart Cities & Communities (CEE 177L)	Sum	2-3	Letter or Credit/No Credit	Williams, P. (PI)
CEE	277S	Design for a Sustainable World (CEE 177S)	Spr	1-5	Letter or Credit/No Credit	
CEE	277X	Current Topics in Sustainable Engineering (CEE 177X)	Win	1-3	Satisfactory/No Credit	Davis, J. (PI)
CEE	278A	Air Pollution Fundamentals	Win	3	Letter or Credit/No Credit	Hildemann, L. (PI)
CEE	278C	Indoor Air Quality (CEE 172A)	Aut	2-3	Letter or Credit/No Credit	Hildemann, L. (PI)
CEE	279	Environmental Engineering Seminar	Aut, Win, Spr	1	Satisfactory/No Credit	Hildemann, L. (PI)
CEE	279S	Seminar: Issues in Environmental Science, Technology and Sustainability (CEE 179S, EARTHSYS 179S, ESS 179S)	Sum	1-2	Satisfactory/No Credit	Robertson, A. (PI)
CEE	279W	Innovation in Water Sector	not given this year	1	Satisfactory/No Credit	
CEE	279X	Sustainable Urban System Seminar (CEE 179X)	Spr	1	Satisfactory/No Credit	Leckie, J. (PI)
CEE	287	Earthquake Resistant Design and Construction	Spr	3-4	Letter (ABCD/NP)	Miranda, E. (PI)
CEE	288	Introduction to Performance Based Earthquake Engineering	Spr	3-4	Letter or Credit/No Credit	Kiremidjian, A. (PI)
CEE	293	Foundations and Earth Structures	Win	3	Letter or Credit/No Credit	Wren, J. (PI)
CEE	297R	Structural Geology and Rock Mechanics (GEOPHYS 251, GS 215)	Win	4	Letter or Credit/No Credit	Pollard, D. (PI)
CEE	301	The Energy Seminar (ENERGY 301, MS&E 494)	Aut, Win, Spr	1	Satisfactory/No Credit	Weyant, J. (PI)
CEE	316	Sustainable Built Environment Research	Win	3	Letter (ABCD/NP)	Eriksson, K. (PI)

Environmental Courses 2015-2016

CEE	363F	Oceanic Fluid Dynamics (ESS 363F)	given next year	3	Letter or Credit/No Credit	
CEE	363G	Field Techniques in Coastal Oceanography	offered occasionally	3	Letter (ABCD/NP)	
CEE	364F	Advanced Topics in Geophysical Fluid Dynamics (ESS 364F)	not given this year	2-3	Letter or Credit/No Credit	
CEE	365A	Advanced Topics in Environmental Fluid Mechanics and Hydrology	Aut	2-6	Letter (ABCD/NP)	Fringer, O. (PI); Koseff, J. (PI); Freyberg, D. (PI);
CEE	365B	Advanced Topics in Environmental Fluid Mechanics and Hydrology	Win	2-6	Letter (ABCD/NP)	Fringer, O. (PI); Kitanidis, P. (PI); Koseff, J. (PI); Monismith, S. (PI); Criddle, C. (PI);
CEE	365C	Advanced Topics in Environmental Fluid Mechanics and Hydrology	Spr	2-6	Letter (ABCD/NP)	Fringer, O. (PI); Koseff, J. (PI); Kunz, J. (PI); Lepech, M. (PI); Monismith, S. (PI); Orr, R. (PI)
CEE	365D	Advanced Topics in Environmental Fluid Mechanics and Hydrology	Sum	2-6	Letter (ABCD/NP)	Barton, J. (PI), et al.
CEE	370A	Environmental Research	Aut	5-6	Satisfactory/No Credit	
CEE	370B	Environmental Research	Win	5-6	Satisfactory/No Credit	Boehm, A. (PI), et al.
CEE	370C	Environmental Research	Spr	5-6	Satisfactory/No Credit	Boehm, A. (PI), et al.
CEE	374A	Introduction to Physiology of Microbes in Biofilms	Aut	1-6	Satisfactory/No Credit	
CEE	374B	Introduction to Physiology of Microbes in Biofilms	Win	1-6	Satisfactory/No Credit	Criddle, C. (PI)
CEE	374C	Introduction to Physiology of Microbes in Biofilms	Spr	1-6	Letter or Credit/No Credit	Criddle, C. (PI)
CEE	374D	Introduction to Physiology of Microbes in Biofilms	Sum	1-6	Satisfactory/No Credit	
CEE	374S	Advanced Topics in Microbial Pollution	Aut, Win, Spr, Sum	1-5	Satisfactory/No Credit	Boehm, A. (PI)
CEE	374T	Advanced Topics in Coastal Pollution	Aut, Win, Spr, Sum	1-5	Satisfactory/No Credit	Boehm, A. (PI)
CEE	374U	Advanced Topics in Submarine Groundwater Discharge	Aut, Win, Spr, Sum	1-5	Satisfactory/No Credit	Boehm, A. (PI)
CEE	374V	Advanced Topics in Microbial Source Tracking	Aut, Win, Spr, Sum	1-5	Satisfactory/No Credit	Boehm, A. (PI)
CEE	374W	Advanced Topics in Water, Health and Development	Aut, Win, Spr, Sum	1-12	Satisfactory/No Credit	Davis, J. (PI)
CEE	377	Research Proposal Writing in Environmental Engineering and Science	Aut, Win, Spr, Sum	1-3	Satisfactory/No Credit	Barton, J. (PI), et al.
CEE	385	Performance-Based Earthquake Engineering	Aut	3-4	Letter (ABCD/NP)	Miranda, E. (PI)
CHEM	10	Exploring Research and Problem Solving Across the Sciences	Aut	2	Satisfactory/No Credit	Cox, C. (PI); Poehlmann, J. (PI)
CHEM	25N	Science in the News	Aut	3	Letter (ABCD/NP)	WAY-SMA; Andersen, H. (PI)
CHEM	28N	Science Innovation and Communication	Aut	3	Letter or Credit/No Credit	Wender, P. (PI)
CHEM	459	Frontiers in Interdisciplinary Biosciences (BIO 459, BIOC 459, BIOE 459, CHEMENG 459, PSYCH 459)	Aut, Win, Spr	1	Medical Satisfactory/No Credit	Robertson, C. (PI)

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CHEMENG	25E	Energy: Chemical Transformations for Production, Storage, and Use (ENGR 25E)	Win	3	Letter or Credit/No Credit	GER:DB-EngrAppSci	Jaramillo, T. (PI)
CHEMENG	35N	Renewable Energy for a Sustainable World	not given this year	3	Letter or Credit/No Credit	GER:DB-EngrAppSci	
CHEMENG	60Q	Environmental Regulation and Policy	Aut	3	(ABCD/NP)	GER:DB-EngrAppSci	Libicki, S. (PI)
CHEMENG	70Q	Masters of Disaster	Aut	3	(ABCD/NP)	GER:DB-EngrAppSci, WAY-AQR	Moalli, J. (PI)
CHEMENG	162	Polymers for Clean Energy and Water (CHEMENG 262)	Win	3	(ABCD/NP)		Frank, C. (PI)
CHEMENG	174	Environmental Microbiology I (CEE 274A, CHEMENG 274)	Aut	3	Letter or Credit/No Credit		Spormann, A. (PI)
CHEMENG	262	Polymers for Clean Energy and Water (CHEMENG 162)	Win	3	(ABCD/NP)		Frank, C. (PI)
CHEMENG	274	Environmental Microbiology I (CEE 274A, CHEMENG 174)	Aut	3	Letter or Credit/No Credit		Spormann, A. (PI)
CHEMENG	432	Electrochemical Energy Conversion	not given this year	3	Letter or Credit/No Credit		
CHEMENG	456	Microbial Bioenergy Systems (CEE 274B)	Win	3	Letter or Credit/No Credit		Spormann, A. (PI)
CHEMENG	459	Frontiers in Interdisciplinary Biosciences (BIO 459, BIOC 459, BIOE 459, CHEM 459, PSYCH 459)	Aut, Win, Spr	1	Medical Satisfactory/No Credit		Robertson, C. (PI)
CHPR	213	Healthy/Sustainable Food Systems: Maximum Sustainability across Health, Economics, and Environment (HUMBIO 113S)	Win	4	Letter (ABCD/NP)		Gardner, C. (PI)
CHPR	266	Food and Society: Exploring Eating Behaviors in Social, Environmental, and Policy Context (HUMBIO 166)	not given this year	4	Letter (ABCD/NP)		
CLASSICS	55	Urban Sustainability: Long-Term Archaeological Perspectives	not given this year	3-5	Letter or Credit/No Credit		
CLASSICS	121	Ecology in Philosophy and Literature	not given this year	3-5	Letter (ABCD/NP)	GER:DB-Hum, GER:EC-EthicReas, WAY-A-II, WAY-ER	
CLASSICS	358	The Archaeology of Ancient Mediterranean Environments	Aut	4-5	Letter or Credit/No Credit		Kearns, C. (PI)
CME	211	Software Development for Scientists and Engineers (EARTH 211)	Aut	3	Letter or Credit/No Credit		Henderson, N. (PI)
COMM	1B	Media, Culture, and Society (AMSTUD 1B)	not given this year	5	Letter or Credit/No Credit	GER:DB-SocSci, WAY-A-II, WAY-SI	
COMM	104W	Reporting, Writing, and Understanding the News	Aut, Win, Spr	5	Letter (ABCD/NP)	WAY-CE	Phillips, C. (PI); Zacharia, J. (PI)
COMM	108	Media Processes and Effects (COMM 208)	Spr	4-5	Letter (ABCD/NP)	GER:DB-SocSci, WAY-SI	Bailenson, J. (PI)
COMM	172	Media Psychology (COMM 272)	Win	4-5	Letter (ABCD/NP)	GER:DB-SocSci, WAY-SI	Reeves, B. (PI)
COMM	177C	Specialized Writing and Reporting: Environmental Journalism (COMM 277C, EARTHSYS 177C, EARTHSYS 277C)	Win	4-5	Letter or Credit/No Credit		
COMM	272	Media Psychology (COMM 172)	Win	4-5	Letter (ABCD/NP)		Reeves, B. (PI)

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COMM	277C	Specialized Writing and Reporting: Environmental Journalism (COMM 177C, EARTHSYS 177C, EARTHSYS 277C)	Win	4-5	Letter or Credit/No Credit	
COMPLIT	156A	States of Nature in Literature and Philosophy	not given this year	3-5	Letter or Credit/No Credit	
COMPLIT	158	Ecology in Philosophy and Literature	not given this year	3-5	Letter (ABCD/NP)	
COMPLIT	168	Imagining the Oceans (ENGLISH 168, FRENCH 168)	Spr	5	Letter (ABCD/NP)	GER:DB-Hum, WAY-A-II, WAY-ED Cohen, M. (PI); Yang, R. (TA)
COMPLIT	363	Ecology, History, Exchange	not given this year	4-5	Letter (ABCD/NP)	
COMPLIT	368A	Imagining the Oceans (ENGLISH 368A, FRENCH 368A)	Win	5	Letter or Credit/No Credit	Cohen, M. (PI)
COMPMED	84Q	Globally Emerging Zoonotic Diseases	Spr	3	Letter or Credit/No Credit	WAY-SMA
CS	95SI	Tech for Social Change: Integrating Technology into Nonprofit Operation to Maximize Social Impact	not given this year	2	Satisfactory/No Credit	
CS	193R	Green Computing	not given this year	3	Letter or Credit/No Credit	
CS	325	Topics in Computational Sustainability	Spr	3	Letter or Credit/No Credit	Ermon, S. (PI)
CSRE	16N	African Americans and Social Movements (AFRICAAM 16N, SOC 16N)	not given this year	3	Letter or Credit/No Credit	GER:DB-SocSci
CSRE	109A	Federal Indian Law (NATIVEAM 109A)	not given this year	5	Letter (ABCD/NP)	
CSRE	109B	Indian Country Economic Development (NATIVEAM 109B)	Win	3	Letter (ABCD/NP)	Biestman, K. (PI)
CSRE	156J	Environment, Nature and Race (ANTHRO 156B)	Spr	3-5	Letter or Credit/No Credit	Gardiner, M. (PI)
CSRE	178	Ethics and Politics of Public Service (ETHICSOC 133, HUMBIO 178, PHIL 175A, PHIL 275A, POLISCI 133, PUBLPOL 103D, URBANST 122)	Spr	5	Letter or Credit/No Credit	GER:DB-SocSci, WAY-ED, WAY-ER Schnaubelt, T. (PI); Terra, L. (PI)
CSRE	187A	The Anthropology of Race, Nature, and Animality (ANTHRO 187A)	not given this year	5	Letter (ABCD/NP)	
EARTH	1	Current Research in the Earth and Environmental Sciences	Aut	1	Satisfactory/No Credit	Cina, S. (PI)
EARTH	2	Climate and Society	Win	3	Letter or Credit/No Credit	Burke, M. (PI); Diffenbaugh, N. (PI); Lobell, D. (PI)
EARTH	5	Geokids: Earth Sciences Education	Aut, Spr	1	Satisfactory/No Credit	Saltzman, J. (PI)
EARTH	100	Research Preparation for Undergraduates	Spr	1	Satisfactory/No Credit	Cina, S. (PI); Klemperer, S. (PI)
EARTH	117	Earth Sciences of the Hawaiian Islands (EARTHSYS 117, ESS 117)	alternate years, given next year	4	Letter (ABCD/NP)	WAY-SMA
EARTH	180	Introduction to Earth & Environmental Science Research Design	not given this year	1	Satisfactory/No Credit	
EARTH	191	GS Field Trips (GS 191)	Win, Spr, Sum	1	Satisfactory/No Credit	Petterson, R. (PI)
EARTH	193	Natural Perspectives: Geology, Environment, and Art	Spr	1	Satisfactory/No Credit	Cina, S. (PI); Nevle, R. (PI)
EARTH	202	PhD Students on the PhD	Win	1	Satisfactory/No Credit	

Environmental Courses 2015-2016

EARTH	211	Software Development for Scientists and Engineers (CME 211)	Aut	3	Letter or Credit/No Credit	Henderson, N. (PI)
EARTH	214	Software Design in Modern Fortran for Scientists and Engineers (CME 214)	alternate years, given next year	3	Letter (ABCD/NP)	
EARTH	218	Communicating Science	Aut	3	Satisfactory/No Credit	Saltzman, J. (PI)
EARTH	219	OPINION WRITING IN THE SCIENCES	Spr	1	Satisfactory/No Credit	
EARTH	251	Negotiation (CEE 151, CEE 251)	Spr	3	Letter (ABCD/NP)	Christensen, S. (PI)
EARTH	300	Earth Sciences Seminar	Aut	1	Satisfactory/No Credit	Matson, P. (PI)
EARTH	310	Computational Geosciences Seminar	not given this year	1	Satisfactory/No Credit	
EARTHSYS	4	How to Build and Maintain a Habitable Planet: An Introduction to Earth System History (GS 4)	Win	4	Letter or Credit/No Credit	GER: DB-NatSci, WAY-SMA Payne, J. (PI)
EARTHSYS	9	Community-Based Internship Preparation Seminar (URBANST 101)	Spr	1	Satisfactory/No Credit	Chow, V. (PI); Douglas, H. (PI); Truebe, S. (PI)
EARTHSYS	10	Introduction to Earth Systems	Aut	4	Letter or Credit/No Credit	GER: DB-NatSci, Arrigo, K. (PI); WAY-SMA Fendorf, S. (PI)
EARTHSYS	12SC	Environmental and Geological Field Studies in the Rocky Mountains (ESS 12SC, GS 12SC)	Sum	2	Letter (ABCD/NP)	Chamberlain, P. (PI)
EARTHSYS	13SC	People, Land, and Water in the Heart of the West	not given this year	2	Satisfactory/No Credit	
EARTHSYS	15SI	Reducing Stanford's Carbon Footprint	not given this year	2	Satisfactory/No Credit	
EARTHSYS	18	Promoting Sustainability Behavior Change at Stanford	Aut	2	Satisfactory/No Credit	Robinson, T. (PI)
EARTHSYS	21	Peopling of the Globe: Changing Patterns of Land Use and Consumption Over the Last 50,000 Years (ARCHLGY 12)	not given this year	3-5	Letter (ABCD/NP)	GER:DB-SocSci
EARTHSYS	23	Human Power, the Environment, and Alternative Transportation	not given this year	1	Satisfactory/No Credit	
EARTHSYS	30	Ecology for Everyone (BIO 30)	Spr	4	Letter or Credit/No Credit	GER: DB-NatSci, WAY-SMA Gordon, D. (PI)
EARTHSYS	37N	Climate Change: Science & Society	not given this year	3	Letter (ABCD/NP)	GER: DB-NatSci
EARTHSYS	38N	The Worst Journey in the World: The Science, Literature, and History of Polar Exploration (ESS 38N, GS 38N)	Win	3	Letter (ABCD/NP)	GER: DB-NatSci Dunbar, R. (PI)
EARTHSYS	39N	The Carbon Cycle: Reducing Your Impact	not given this year	3	Letter or Credit/No Credit	GER: DB-NatSci
EARTHSYS	41N	The Global Warming Paradox	Aut, Sum	3	Letter or Credit/No Credit	WAY-SMA Diftenbaugh, N. (PI)
EARTHSYS	42	The Global Warming Paradox II (ESS 42)	not given this year	1	Letter or Credit/No Credit	
EARTHSYS	44N	The Invisible Majority: The Microbial World That Sustains Our Planet	Spr	3	Letter or Credit/No Credit	Welanders, P. (PI)
EARTHSYS	46N	Exploring the Critical Interface between the Land and Monterey Bay: Elkhorn Slough (ESS 46N)	Spr	3	Letter or Credit/No Credit	WAY-SMA Francis, C. (PI)

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EARTHSYS	46Q	Environmental Impact of Energy Systems: What are the Risks? (GS 46Q)	Win	3	Letter (ABCD/NP)	Ewing, R. (PI)
EARTHSYS	49N	Multi-Disciplinary Perspectives on a Large Urban Estuary: San Francisco Bay (CEE 50N, ESS 49N)	alternate years, given next year	3	Letter or Credit/No Credit	
EARTHSYS	56Q	Changes in the Coastal Ocean: The View From Monterey and San Francisco Bays (ESS 56Q)	not given this year	3	Letter or Credit/No Credit	GER: DB-NatSci
EARTHSYS	57Q	Climate Change from the Past to the Future (ESS 57Q)	not given this year	3	Letter or Credit/No Credit	WAY-SMA
EARTHSYS	61Q	Food and security (ESS 61Q, INTNLREL 61Q)	Aut	3	Letter or Credit/No Credit	Naylor, R. (PI); Stedman, S. (PI)
EARTHSYS	70	How the Earth Works: Physics for Earth and Environmental Scientists	not given this year	3	Letter or Credit/No Credit	
EARTHSYS	100	Environmental and Geological Field Studies in the Rocky Mountains (ESS 101, GS 101)	Aut	3	Satisfactory/No Credit	Chamberlain, P. (PI)
EARTHSYS	101	Energy and the Environment (ENERGY 101)	Win	3	Letter or Credit/No Credit	GER:DB-EngrAppSci, WAY-AQR, WAY-SMA; Durlofsky, L. (PI); Kovscek, A. (PI)
EARTHSYS	102	Renewable Energy Sources and Greener Energy Processes (ENERGY 102)	Spr	3	Letter or Credit/No Credit	GER:DB-EngrAppSci, WAY-SMA; Gerritsen, M. (PI); Kovscek, A. (PI); Ginnebaugh, D. (PI); Grubert, E. (PI); Knapp, K. (PI); Woodward, J. (PI)
EARTHSYS	103	Understanding Energy (CEE 107A, CEE 207A)	Aut, Spr	3	Letter or Credit/No Credit	GER:DB-EngrAppSci
EARTHSYS	104	The Water Course (GEOPHYS 70)	Win	3	Letter or Credit/No Credit	GER: DB-NatSci, WAY-AQR, WAY-SMA; Knight, R. (PI)
EARTHSYS	105A	Ecology and Natural History of Jasper Ridge Biological Preserve (BIO 105A)	Win	4	Satisfactory/No Credit	Dirzo, R. (PI); Wilber, C. (PI); Penuelas, M. (TA)
EARTHSYS	105B	Ecology and Natural History of Jasper Ridge Biological Preserve (BIO 105B)	Spr	4	Satisfactory/No Credit	Dirzo, R. (PI); Wilber, C. (PI)
EARTHSYS	106	World Food Economy (EARTHSYS 206, ECON 106, ECON 206, ESS 106, ESS 206)	Spr	5	Letter or Credit/No Credit	WAY-SI; Burke, M. (PI); Naylor, R. (PI)
EARTHSYS	107	Control of Nature (ESS 107)	Spr	3	Letter or Credit/No Credit	Jackson, R. (PI)
EARTHSYS	108	Coastal Wetlands	not given this year	3	Letter or Credit/No Credit	GER: DB-NatSci
EARTHSYS	109	Creating a Green Student Workforce to Help Implement Stanford's Sustainability Vision (CEE 109, ENVRINST 109)	not given this year	2	Satisfactory/No Credit	
EARTHSYS	111	Biology and Global Change (BIO 117, ESS 111)	Win	4	Letter or Credit/No Credit	GER: DB-NatSci, WAY-SMA; Arrigo, K. (PI); Vitousek, P. (PI)
EARTHSYS	112	Human Society and Environmental Change (ESS 112, HISTORY 103D)	Aut	4	Letter (ABCD/NP)	WAY-SI; Frank, Z. (PI); Naylor, R. (PI); Wolfe, M. (PI)
EARTHSYS	113	Earthquakes and Volcanoes (GEOPHYS 90)	Spr	3	Letter or Credit/No Credit	GER:DB-EngrAppSci, WAY-AQR, WAY-SMA; Segall, P. (PI)

Environmental Courses 2015-2016

EARTHSYS	115	Wetlands Ecology of the Pantanal Prefield Seminar	not given this year	2-3	Satisfactory/No Credit	
EARTHSYS	116	Ecology of the Hawaiian Islands (BIO 116)	alternate years, given next year	4	Letter (ABCD/NP)	GER: DB-NatSci
EARTHSYS	117	Earth Sciences of the Hawaiian Islands (EARTH 117, ESS 117)	alternate years, given next year	4	Letter (ABCD/NP)	WAY-SMA
EARTHSYS	118	Heritage, Environment, and Sovereignty in Hawaii (ANTHRO 118)	not given this year	4	Letter (ABCD/NP)	WAY-ED
EARTHSYS	119	Will Work for Food (EARTHSYS 219)	Spr	1	Satisfactory/No Credit	Dunn, D. (PI); Rothe, M. (PI)
EARTHSYS	121	Building a Sustainable Society: New Approaches for Integrating Human and Environmental Priorities	Spr	3	Letter (ABCD/NP)	
EARTHSYS	122	Paleobiology (GS 123, GS 223B)	Spr	4	Letter or Credit/No Credit	GER: DB-NatSci, WAY-SMA Payne, J. (PI)
EARTHSYS	128	Evolutionary History of Terrestrial Ecosystems (GS 128, GS 228)	Win	4	Letter (ABCD/NP)	Boyce, C. (PI)
EARTHSYS	129	Geographic Impacts of Global Change: Mapping the Stories (BIO 128)	not given this year	4	Letter or Credit/No Credit	
EARTHSYS	132	Energy and Climate Cooperation in the Western Hemisphere	offered occasionally	4	Letter (ABCD/NP)	
EARTHSYS	134	Stable Isotopes in Biogeochemistry	not given this year	3	Letter (ABCD/NP)	GER: DB-NatSci
EARTHSYS	135	Podcasting the Anthropocene (EARTHSYS 235)	Aut	3	Letter or Credit/No Credit	Osborne, M. (PI); Traer, M. (PI)
EARTHSYS	138	International Urbanization Seminar: Cross-Cultural Collaboration for Sustainable Urban Development (CEE 126, IPS 274, URBANST 145)	Aut	4-5	Letter or Credit/No Credit	Chan, D. (PI); Hsu, K. (PI)
EARTHSYS	140	The Energy-Water Nexus (GEOPHYS 80)	alternate years, given next year	3	Letter or Credit/No Credit	WAY-AQR
EARTHSYS	141	Remote Sensing of the Oceans (EARTHSYS 241, ESS 141, ESS 241, GEOPHYS 141)	Win	3-4	Letter or Credit/No Credit	GER: DB-NatSci, WAY-AQR Arrigo, K. (PI)
EARTHSYS	142	Remote Sensing of Land (EARTHSYS 242, ESS 162, ESS 262)	Win	4	Letter or Credit/No Credit	Lyons, E. (PI)
EARTHSYS	143J	Climate Change in the West: A History of the Future	not given this year	5	Letter or Credit/No Credit	
EARTHSYS	144	Fundamentals of Geographic Information Science (GIS) (ESS 164)	Aut	3-4	Letter or Credit/No Credit	GER: DB-NatSci Lyons, E. (PI)
EARTHSYS	145	Environmental Crises and Historical Change	not given this year	4-5	Letter or Credit/No Credit	GER:DB-SocSci
EARTHSYS	146A	Atmosphere, Ocean, and Climate Dynamics: The Atmospheric Circulation (EARTHSYS 246A, ESS 146A, ESS 246A, GEOPHYS 146A, GEOPHYS 246A)	Win	3	Letter or Credit/No Credit	Thomas, L. (PI)
EARTHSYS	146B	Atmosphere, Ocean, and Climate Dynamics: the Ocean Circulation (EARTHSYS 246B, ESS 146B, ESS 246B, GEOPHYS 146B, GEOPHYS 246B)	Spr	3	Letter or Credit/No Credit	Thomas, L. (PI)
EARTHSYS	151	Biological Oceanography (EARTHSYS 251, ESS 151, ESS 251)	Spr	3-4	Letter or Credit/No Credit	WAY-SMA Arrigo, K. (PI)

Environmental Courses 2015-2016

EARTHSYS	152	Marine Chemistry (EARTHSYS 252, ESS 152, ESS 252)	Spr	3-4	Letter or Credit/No Credit	WAY-AQR, WAY-SMA	Casciotti, K. (PI)
EARTHSYS	155	Science of Soils (ESS 155)	Spr	3-4	Letter or Credit/No Credit	GER: DB-NatSci, WAY-SMA	Fendorf, S. (PI)
EARTHSYS	156	Soil and Water Chemistry (EARTHSYS 256, ESS 156, ESS 256)	alternate years, given next year	1-4	Letter or Credit/No Credit	GER: DB-NatSci, WAY-SMA	
EARTHSYS	156M	Marine Resource Economics and Conservation (ECON 156, HUMBIO 111M)	not given this year	5	Letter or Credit/No Credit	WAY-SI	
EARTHSYS	158	Geomicrobiology (EARTHSYS 258, ESS 158, ESS 258)	alternate years, given next year	3	Letter or Credit/No Credit		
EARTHSYS	160	Sustainable Cities (URBANST 164)	Win	4-5	Letter or Credit/No Credit	WAY-ED, WAY-SI	Chan, D. (PI)
EARTHSYS	163E	International Climate Negotiations: Unpacking the Road to Paris (CEE 163E, CEE 263E, EARTHSYS 263E)	Aut	3	Letter (ABCD/NP)		Nevle, R. (PI); Strong, A. (PI); Tangri, N. (PI)
EARTHSYS	163F	Groundwork for COP21 (CEE 163F, CEE 263F, EARTHSYS 263F)	Aut	1	Satisfactory/No Credit		Cina, S. (PI); Nevle, R. (PI); Strong, A. (PI); Tangri, N. (PI)
EARTHSYS	164	Introduction to Physical Oceanography (CEE 164, CEE 262D, ESS 148)	Win	4	Letter (ABCD/NP)	GER: DB-NatSci	Fong, D. (PI)
EARTHSYS	168	The Evolving Sphere of Food Security (EARTHSYS 268)	not given this year	2	Satisfactory/No Credit		
EARTHSYS	170	Environmental Geochemistry (GS 170, GS 270)	Win	4	Letter (ABCD/NP)	GER: DB-NatSci	Brown, G. (PI)
EARTHSYS	172	Australian Ecosystems: Human Dimensions and Environmental Dynamics (ANTHRO 170, ANTHRO 270)	not given this year	3	Letter (ABCD/NP)	WAY-SI	
EARTHSYS	173	Aquaculture and the Environment: Science, History, and Policy (EARTHSYS 273, ESS 173, ESS 273)	not given this year	3	Letter or Credit/No Credit		
EARTHSYS	175	California Coast: Science, Policy, and Law (CEE 175A, CEE 275A, EARTHSYS 275)	Spr	3-4	Letter or Credit/No Credit		Boehm, A. (PI); Sivas, D. (PI)
EARTHSYS	176	Open Space Management Practicum (EARTHSYS 276)	Aut	3-4	Letter or Credit/No Credit		Strong, A. (PI); Truebe, S. (PI)
EARTHSYS	176A	Open Space Practicum Independent Study	not given this year	1-2	Satisfactory/No Credit		
EARTHSYS	177	Interdisciplinary Research Survival Skills (EARTHSYS 277, ENVRINST 177, ENVRINST 277)	not given this year	2	Letter (ABCD/NP)		
EARTHSYS	177C	Specialized Writing and Reporting: Environmental Journalism (COMM 177C, COMM 277C, EARTHSYS 277C)	Win	4-5	Letter or Credit/No Credit		
EARTHSYS	178	The Ethics of Environmental Choices	not given this year	4	Letter or Credit/No Credit	GER:DB-Hum	
EARTHSYS	179S	Seminar: Issues in Environmental Science, Technology and Sustainability (CEE 179S, CEE 279S, ESS 179S)	Sum	1-2	Satisfactory/No Credit		Robertson, A. (PI)
EARTHSYS	180B	Principles and Practices of Sustainable Agriculture (ESS 280B)	Aut, Spr	3-4	Letter or Credit/No Credit	WAY-SMA	Archie, P. (PI)

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EARTHSYS	181	Urban Agriculture in the Developing World (EARTHSYS 281, ESS 181, ESS 281, URBANST 181)	not given this year	3-4	Letter or Credit/No Credit	
EARTHSYS	182	Ecological Farm Management (ESS 282)	Win	1	Satisfactory/No Credit	Archie, P. (PI)
EARTHSYS	183	Food Matters: Agriculture in Film (EARTHSYS 283, ESS 183, ESS 283)	Win	1	Satisfactory/No Credit	Archie, P. (PI); Bateman, J. (PI)
EARTHSYS	184	Climate and Agriculture (EARTHSYS 284, ESS 184, ESS 284)	not given this year	3-4	Letter or Credit/No Credit	WAY-SMA
EARTHSYS	185	Feeding Nine Billion	Win	4-5	Letter or Credit/No Credit	WAY-AQR; Lobell, D. (PI)
EARTHSYS	187	FEED the Change: Redesigning Food Systems	Aut	2-3	Letter (ABCD/NP)	Dunn, D. (PI); Rothe, M. (PI)
EARTHSYS	188	Social and Environmental Tradeoffs in Climate Decision-Making (EARTHSYS 288)	Spr	1-2	Letter or Credit/No Credit	Matson, P. (PI); Monroe, I. (PI)
EARTHSYS	191	Introduction to Environmental Communication (EARTHSYS 291)	Aut	3	Letter or Credit/No Credit	Arrigo, K. (PI); Hayden, T. (PI)
EARTHSYS	195	Natural Hazards and Risk Communication	not given this year	3	Letter or Credit/No Credit	WAY-CE
EARTHSYS	197	Directed Individual Study in Earth Systems	Spr, Sum	1-9	Letter or Credit/No Credit	Kennedy, J. (PI)
EARTHSYS	200	Sustaining Action: Research, Analysis and Writing for the Public	Win, Spr	3	Letter or Credit/No Credit	WAY-CE; Hayden, T. (PI); Phillips, K. (PI)
EARTHSYS	201	Climate Change and the IPCC	not given this year	1-2	Letter or Credit/No Credit	
EARTHSYS	206	World Food Economy (EARTHSYS 106, ECON 106, ECON 206, ESS 106, ESS 206)	Spr	5	Letter or Credit/No Credit	
EARTHSYS	207	Spanish in Science/Science in Spanish (BIO 208, LATINAM 207)	Spr	2	Satisfactory/No Credit	Dirzo, R. (PI)
EARTHSYS	208	Coastal Wetlands	not given this year	3	Letter or Credit/No Credit	
EARTHSYS	210A	Senior Capstone and Reflection	Aut	3	Letter (ABCD/NP)	Nevle, R. (PI); Phillips, K. (PI)
EARTHSYS	210B	Senior Capstone and Reflection	Win	3	Letter (ABCD/NP)	Nevle, R. (PI)
EARTHSYS	210C	Senior Capstone and Reflection	Win	3	Letter (ABCD/NP)	Phillips, K. (PI)
EARTHSYS	210P	Earth Systems Capstone Project	Win, Spr	1	Satisfactory/No Credit	Hayden, T. (PI); Nevle, R. (PI); Phillips, K. (PI)
EARTHSYS	211	Fundamentals of Modeling (ESS 211)	Aut	3-5	Letter or Credit/No Credit	Lobell, D. (PI)
EARTHSYS	219	Will Work for Food (EARTHSYS 119)	Spr	1	Satisfactory/No Credit	Dunn, D. (PI); Rothe, M. (PI)
EARTHSYS	232	Energy and Climate Cooperation in the Western Hemisphere	offered occasionally	4	Letter (ABCD/NP)	
EARTHSYS	234	Stable Isotopes in Biogeochemistry	not given this year	3	Letter (ABCD/NP)	
EARTHSYS	235	Podcasting the Anthropocene (EARTHSYS 135)	Aut	3	Letter or Credit/No Credit	Osborne, M. (PI); Traer, M. (PI)
EARTHSYS	241	Remote Sensing of the Oceans (EARTHSYS 141, ESS 141, ESS 241, GEOPHYS 141)	Win	3-4	Letter or Credit/No Credit	Arrigo, K. (PI)
EARTHSYS	242	Remote Sensing of Land (EARTHSYS 142, ESS 162, ESS 262)	Win	4	Letter or Credit/No Credit	Lyons, E. (PI)

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EARTHSYS	246A	Atmosphere, Ocean, and Climate Dynamics: The Atmospheric Circulation (EARTHSYS 146A, ESS 146A, ESS 246A, GEOPHYS 146A, GEOPHYS 246A)	Win	3	Letter or Credit/No Credit	Thomas, L. (PI)
EARTHSYS	246B	Atmosphere, Ocean, and Climate Dynamics: the Ocean Circulation (EARTHSYS 146B, ESS 146B, ESS 246B, GEOPHYS 146B, GEOPHYS 246B)	Spr	3	Letter or Credit/No Credit	Thomas, L. (PI)
EARTHSYS	251	Biological Oceanography (EARTHSYS 151, ESS 151, ESS 251)	Spr	3-4	Letter or Credit/No Credit	Arrigo, K. (PI)
EARTHSYS	252	Marine Chemistry (EARTHSYS 152, ESS 152, ESS 252)	Spr	3-4	Letter or Credit/No Credit	Casciotti, K. (PI)
EARTHSYS	255	Microbial Physiology (BIO 180, ESS 255, GS 233A)	Aut	3	Letter or Credit/No Credit	Welander, P. (PI)
EARTHSYS	256	Soil and Water Chemistry (EARTHSYS 156, ESS 156, ESS 256)	alternate years, given next year	1-4	Letter or Credit/No Credit	
EARTHSYS	258	Geomicrobiology (EARTHSYS 158, ESS 158, ESS 258)	alternate years, given next year	3	Letter or Credit/No Credit	
EARTHSYS	263E	International Climate Negotiations: Unpacking the Road to Paris (CEE 163E, CEE 263E, EARTHSYS 163E)	Aut	3	Letter (ABCD/NP)	Nevle, R. (PI); Strong, A. (PI); Tangri, N. (PI)
EARTHSYS	263F	Groundwork for COP21 (CEE 163F, CEE 263F, EARTHSYS 163F)	Aut	1	Satisfactory/No Credit	Cina, S. (PI); Nevle, R. (PI); Strong, A. (PI); Tangri, N. (PI)
EARTHSYS	268	The Evolving Sphere of Food Security (EARTHSYS 168)	not given this year	2	Satisfactory/No Credit	
EARTHSYS	272	Antarctic Marine Geology (ESS 242)	given next year	3	Letter or Credit/No Credit	
EARTHSYS	273	Aquaculture and the Environment: Science, History, and Policy (EARTHSYS 173, ESS 173, ESS 273)	not given this year	3	Letter or Credit/No Credit	
EARTHSYS	275	California Coast: Science, Policy, and Law (CEE 175A, CEE 275A, EARTHSYS 175)	Spr	3-4	Letter or Credit/No Credit	Boehm, A. (PI); Sivas, D. (PI)
EARTHSYS	276	Open Space Management Practicum (EARTHSYS 176)	Aut	3-4	Letter or Credit/No Credit	Strong, A. (PI); Truebe, S. (PI)
EARTHSYS	277	Interdisciplinary Research Survival Skills (EARTHSYS 177, ENVRINST 177, ENVRINST 277)	not given this year	2	Letter (ABCD/NP)	
EARTHSYS	277C	Specialized Writing and Reporting: Environmental Journalism (COMM 177C, COMM 277C, EARTHSYS 177C)	Win	4-5	Letter or Credit/No Credit	
EARTHSYS	278	The Ethics of Environmental Choices	not given this year	4	Letter or Credit/No Credit	
EARTHSYS	281	Urban Agriculture in the Developing World (EARTHSYS 181, ESS 181, ESS 281, URBANST 181)	not given this year	3-4	Letter or Credit/No Credit	
EARTHSYS	283	Food Matters: Agriculture in Film (EARTHSYS 183, ESS 183, ESS 283)	Win	1	Satisfactory/No Credit	Archie, P. (PI); Bateman, J. (PI)

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EARTHSYS	284	Climate and Agriculture (EARTHSYS 184, ESS 184, ESS 284)	not given this year	3-4	Letter or Credit/No Credit		
EARTHSYS	288	Social and Environmental Tradeoffs in Climate Decision-Making (EARTHSYS 188)	Spr	1-2	Letter or Credit/No Credit		Matson, P. (PI); Monroe, I. (PI)
EARTHSYS	289A	FEED Lab: Innovating in the Local Food System	Win	3-4	Letter (ABCD/NP)		Dunn, D. (PI); Rothe, M. (PI)
EARTHSYS	289B	FEED Lab: Innovating in the Local Food System	Spr	3-4	Letter (ABCD/NP)		Dunn, D. (PI); Rothe, M. (PI)
EARTHSYS	290	Master's Seminar	Aut	2	Satisfactory/No Credit		Phillips, K. (PI)
EARTHSYS	291	Introduction to Environmental Communication (EARTHSYS 191)	Aut	3	Letter or Credit/No Credit		Arrigo, K. (PI); Hayden, T. (PI)
EARTHSYS	292	Multimedia Environmental Communication	Aut	3	Letter (ABCD/NP)		Hayden, T. (PI)
EARTHSYS	293	Environmental Communication Practicum	Aut, Win, Spr, Sum	5	Satisfactory/No Credit		Hayden, T. (PI)
EARTHSYS	294	Environmental Communication Capstone	Spr	5	Letter (ABCD/NP)		Hayden, T. (PI)
EARTHSYS	298	Earth Systems Book Review	Spr	2	Satisfactory/No Credit		
EARTHSYS	323	Stanford at Sea (BIOHOPK 182H, BIOHOPK 323H, EESS 323)	alternate years, given next year	16	Letter (ABCD/NP)		
EASTASN	94	The Rise of China in World Affairs (EASTASN 294)	Aut	3-5	Letter or Credit/No Credit		Miller, A. (PI)
EASTASN	117	Health and Healthcare Systems in East Asia (EASTASN 217)	Win	3-5	Letter or Credit/No Credit		Eggleston, K. (PI)
EASTASN	217	Health and Healthcare Systems in East Asia (EASTASN 117)	Win	3-5	Letter or Credit/No Credit		Eggleston, K. (PI)
EASTASN	294	The Rise of China in World Affairs (EASTASN 94)	Aut	3-5	Letter or Credit/No Credit		Miller, A. (PI)
ECON	17N	Energy, the Environment, and the Economy	Win	3	Letter (ABCD/NP)	WAY-SI	Wolak, F. (PI)
ECON	18N	Industrial Revolution: History, Ethics & Consequences of Mod. Economic Development	not given this year	5	Letter (ABCD/NP)	GER:DB-SocSci	
ECON	19N	The Economics of Cities	not given this year	2	Letter or Credit/No Credit		
ECON	19SC	Land and Water Policies in the West	not given this year	2	Satisfactory/No Credit		
ECON	20SI	Sustainability from the Economic Perspective	not given this year	1-2	Satisfactory/No Credit		
ECON	106	World Food Economy (EARTHSYS 106, EARTHSYS 206, ECON 206, ESS 106, ESS 206)	Spr	5	Letter or Credit/No Credit	WAY-SI GER:EC-GlobalCom, WAY-SI	Burke, M. (PI); Naylor, R. (PI)
ECON	118	Development Economics	Win	5	Letter or Credit/No Credit		
ECON	126	Economics of Health and Medical Care (BIOMEDIN 156, BIOMEDIN 256, HRP 256)	Aut	5	Medical Option (Med-Ltr-CR/NC)	WAY-SI	Bhattacharya, J. (PI)
ECON	127	Economics of Health Improvement in Developing Countries (MED 262)	Spr	5	Letter or Credit/No Credit	WAY-SI	Alsán, M. (PI)
ECON	155	Environmental Economics and Policy	Win	5	Letter or Credit/No Credit	GER: DB-NatSci, WAY-SI	Goulder, L. (PI)
ECON	158	Regulatory Economics	not given this year	5	Letter or Credit/No Credit	WAY-SI	
ECON	159	Economic, Legal, and Political Analysis of Climate-Change Policy	not given this year	5	Letter (ABCD/NP)		

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ECON	206	World Food Economy (EARTHSYS 106, EARTHSYS 206, ECON 106, ESS 106, ESS 206)	Spr	5	Letter or Credit/No Credit	Casaburi, L. (PI); Fafchamps, M. (PI); Morten, M. (PI)
ECON	214	Development Economics I	Aut	2-5	Letter or Credit/No Credit	Chandrasekhar, A. (PI)
ECON	216	Development Economics III	Spr	2-5	Letter or Credit/No Credit	
ECON	224	Science, Technology, and Economic Growth	not given this year	2-5	Letter or Credit/No Credit	
ECON	250	Environmental Economics	Spr	2-5	Letter or Credit/No Credit	Goulder, L. (PI)
ECON	251	Natural Resource and Energy Economics	Win	2-5	Letter or Credit/No Credit	Kolstad, C. (PI); Wolak, F. (PI)
ECON	253	Energy Markets: Theory and Evidence from Latin America	not given this year	2-5	Letter (ABCD/NP)	
ECON	341	Public Economics and Environmental Economics Seminar	Aut, Win, Spr	1-10	Satisfactory/No Credit	Boskin, M. (PI), et al.
EDUC	100A	EAST House Seminar: Current Issues and Debates in Education	Aut	1	Satisfactory/No Credit	Wotipka, C. (PI)
EDUC	126A	Introduction to Public Service Leadership	Win	1-2	Letter or Credit/No Credit	Lobo, K. (PI)
EDUC	126B	Public Service Leadership Program Practicum	Spr	1	Letter or Credit/No Credit	Lobo, K. (PI)
EDUC	139	Educating Young STEM Thinkers (EDUC 239, ME 139, ME 231)	Win, Spr	3-5	Letter or Credit/No Credit	Carroll, M. (PI); Goldman, S. (PI)
EDUC	239	Educating Young STEM Thinkers (EDUC 139, ME 139, ME 231)	Win, Spr	3-5	Letter or Credit/No Credit	Carroll, M. (PI); Goldman, S. (PI)
EDUC	267A	Curriculum and Instruction in Science	Sum	2	Letter (ABCD/NP)	Brown, B. (PI)
EDUC	267B	Curriculum and Instruction in Science	Aut	3	Letter (ABCD/NP)	Brown, B. (PI); Tseng, A. (TA)
EDUC	267C	Curriculum and Instruction in Science	Win	3	Letter (ABCD/NP)	Busch, K. (PI); Tseng, A. (PI)
EDUC	267E	Development of Scientific Reasoning and Knowledge	Aut	2	Letter (ABCD/NP)	Diffenbaugh, P. (PI)
EDUC	267F	Development of Scientific Reasoning and Knowledge II	Win	2	Letter (ABCD/NP)	Diffenbaugh, P. (PI)
EDUC	267G	Integrating the Garden into the Elementary Curriculum	Spr	1	Letter (ABCD/NP)	Cool, K. (PI); Costanzo, R. (PI); Harwell, D. (PI)
EDUC	280	Learning & Teaching of Science (PHYSICS 295)	Spr	3	Letter or Credit/No Credit	Wieman, C. (PI)
EDUC	302	Behavior Design: Connecting People to Nature	Spr	3	Letter (ABCD/NP)	Fogg, B. (PI)
EDUC	320	Sociology of Science (EDUC 120, SOC 330)	Spr	3-4	Letter or Credit/No Credit	McFarland, D. (PI)
EDUC	332	Theory and Practice of Environmental Education	Spr	3	Letter (ABCD/NP)	Ardoin, N. (PI)
EDUC	357	Science and Environmental Education in Informal Contexts	Win	3-4	Letter or Credit/No Credit	Ardoin, N. (PI)
EDUC	359A	Research in Science and Mathematics Education: Assessment and Evaluation	not given this year	2-4	Letter or Credit/No Credit	
EDUC	359C	Science Literacy	not given this year	2-3	Letter or Credit/No Credit	
EDUC	362	The Science Curriculum: Values and Ideology in a Contested Terrain	not given this year	2-4	Letter or Credit/No Credit	
EE	60N	Man versus Nature: Coping with Disasters Using Space Technology (GEOPHYS 60N)	Aut	4	Letter or Credit/No Credit	GER:DB- EngrAppSci, WAY-SMA Zebker, H. (PI)

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EE	93Q	Energy Processes	not given this year	3	Letter (ABCD/NP)	GER:DB-EngrAppSci	
EE	151	Sustainable Energy Systems	Win	3	Letter or Credit/No Credit		Hesselink, L. (PI)
EE	155	Green Electronics (EE 255)	Aut	4	Letter (ABCD/NP)		Dally, B. (PI)
EE	237	Solar Energy Conversion	not given this year	3	Letter or Credit/No Credit		
EE	255	Green Electronics (EE 155)	Aut	4	Letter (ABCD/NP)		Dally, B. (PI)
EE	292H	Engineering, Entrepreneurship & Climate Change	Aut	1	Satisfactory/No Credit		Field, L. (PI)
EE	292K	Intelligent Energy Projects	not given this year	3	Letter or Credit/No Credit		
EE	293A	Solar Cells, Fuel Cells, and Batteries: Materials for the Energy Solution (ENERGY 293A, MATSCI 156, MATSCI 256)	Aut	3-4	Letter or Credit/No Credit		Clemens, B. (PI)
EE	293B	Fundamentals of Energy Processes (ENERGY 293B)	Win	3	Letter or Credit/No Credit		Brandt, A. (PI); Kovscek, A. (PI)
EEES	301	Earth Dynamics	not given this year	1	Letter or Credit/No Credit		
EEES	302	Challenges and Practices in Crossdisciplinary Research and Teaching	not given this year	1	Letter or Credit/No Credit		
ENERGY	10SC	Energy in the West	not given this year	2	Satisfactory/No Credit		
ENERGY	11SC	Energy in the Southwest (CEE 16SC, POLISCI 25SC)	Sum	2	Satisfactory/No Credit		Benson, S. (PI); Cain, B. (PI); Freyberg, D. (PI)
ENERGY	24	Making Molehills out of Mountains: Energy and Development in Appalachia	not given this year	1	Letter or Credit/No Credit		
ENERGY	101	Energy and the Environment (EARTHSYS 101)	Win	3	Letter or Credit/No Credit	GER:DB-EngrAppSci, WAY-AQR, WAY-SMA	Durlofsky, L. (PI); Kovscek, A. (PI)
ENERGY	101A	Energizing California	Spr	1	Satisfactory/No Credit		Gerritsen, M. (PI); Horne, R. (PI)
ENERGY	102	Renewable Energy Sources and Greener Energy Processes (EARTHSYS 102)	Spr	3	Letter or Credit/No Credit	GER:DB-EngrAppSci, WAY-SMA	Gerritsen, M. (PI); Kovscek, A. (PI)
ENERGY	104	Sustainable Energy for 9 Billion	Spr	3	Letter (ABCD/NP)	WAY-AQR	Benson, S. (PI); Brandt, A. (PI)
ENERGY	110	Engineering Economics	Spr	3	Letter (ABCD/NP)		Anzelmo, B. (TA)
ENERGY	120	Fundamentals of Petroleum Engineering (ENGR 120)	Aut	3	Letter or Credit/No Credit	GER:DB-EngrAppSci, WAY-FR, WAY-SMA	Agarwal, A. (PI); McClure, M. (PI)
ENERGY	120A	Flow Through Porous Media Laboratory	not given this year	1	Satisfactory/No Credit		
ENERGY	121	Fundamentals of Multiphase Flow (ENERGY 221)	Win	3	Letter (ABCD/NP)	GER:DB-EngrAppSci	Tchelepi, H. (PI)
ENERGY	123	When Technology Meets Reality; An In-depth Look at the Deepwater Horizon Blowout and Oil Spill	Spr	1	Letter or Credit/No Credit		Sears, R. (PI)
ENERGY	125	Modeling and Simulation for Geoscientists and Engineers	alternate years, given next year	3	Letter (ABCD/NP)		
ENERGY	130	Well Log Analysis I	Aut	3	Letter (ABCD/NP)		Lindblom, R. (PI); McCullough, P. (TA)
ENERGY	141	Seismic Reservoir Characterization (ENERGY 241, GEOPHYS 241A)	Spr	3-4	Letter (ABCD/NP)		Mukerji, T. (PI)

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ENERGY	146	Reservoir Characterization and Flow Modeling with Outcrop Data (ENERGY 246, GS 246)	Aut	3	Letter (ABCD/NP)		Graham, S. (PI); Mukerji, T. (PI); Al Ibrahim, M. (TA)
ENERGY	153	Carbon Capture and Sequestration (ENERGY 253)	Win	3-4	Letter (ABCD/NP)		Benson, S. (PI); Wilcox, J. (PI)
ENERGY	155	Undergraduate Report on Energy Industry Training	Aut, Win, Spr, Sum	1-3	Letter or Credit/No Credit		Aziz, K. (PI), et al.
ENERGY	158	Bringing New Energy Technologies to Market: Optimizing Technology Push and Market Pull	not given this year	3	Letter or Credit/No Credit		
ENERGY	160	Modeling Uncertainty in the Earth Sciences (ENERGY 260)	Win	3	Letter (ABCD/NP)		
ENERGY	167	Engineering Valuation and Appraisal of Oil and Gas Wells, Facilities, and Properties (ENERGY 267)	Win	3	Letter or Credit/No Credit	GER:DB-EngrAppSci	Kourt, W. (PI); Pande, K. (PI)
ENERGY	171	Energy Infrastructure, Technology and Economics (ENERGY 271)	Aut	3	Letter or Credit/No Credit		Sears, R. (PI); Jardine, D. (TA)
ENERGY	175	Well Test Analysis	Spr	3	Letter or Credit/No Credit		Horne, R. (PI)
ENERGY	180	Oil and Gas Production Engineering (ENERGY 280)	not given this year	3	Letter (ABCD/NP)	GER:DB-EngrAppSci	
ENERGY	191	Optimization of Energy Systems (ENERGY 291)	Win	3-4	Letter (ABCD/NP)		
ENERGY	192	Undergraduate Teaching Experience	Aut, Win, Spr, Sum	1-3	Letter or Credit/No Credit		
ENERGY	193	Undergraduate Research Problems	Aut, Win, Spr, Sum	1-3	Letter or Credit/No Credit		Aziz, K. (PI), et al.
ENERGY	194	Special Topics in Energy and Mineral Fluids	Aut, Win, Spr, Sum	1-3	Satisfactory/No Credit		Kovscek, A. (PI)
ENERGY	199	Senior Project and Seminar in Energy Resources	Spr	3-4	Letter or Credit/No Credit		Benson, S. (PI); Mitra, S. (TA)
ENERGY	201	Laboratory Measurement of Reservoir Rock Properties	Win	3	Letter (ABCD/NP)		Benson, S. (PI); Hingerl, F. (PI)
ENERGY	210	Energy Policy for Scientists and Engineers	not given this year	1	Letter or Credit/No Credit		
ENERGY	212	Advanced Programming for Scientists and Engineers (CME 212)	Win	3	Letter or Credit/No Credit		Henderson, N. (PI)
ENERGY	221	Fundamentals of Multiphase Flow (ENERGY 121)	Win	3	Letter (ABCD/NP)		Tchelepi, H. (PI)
ENERGY	223	Reservoir Simulation	Win	3-4	Letter (ABCD/NP)		Durlofsky, L. (PI); Tchelepi, H. (PI)
ENERGY	227	Enhanced Oil Recovery	not given this year	3	Letter (ABCD/NP)		
ENERGY	240	Geostatistics (GS 240)	Spr	2-3	Letter (ABCD/NP)		Caers, J. (PI)
ENERGY	241	Seismic Reservoir Characterization (ENERGY 141, GEOPHYS 241A)	Spr	3-4	Letter (ABCD/NP)		Mukerji, T. (PI)
ENERGY	246	Reservoir Characterization and Flow Modeling with Outcrop Data (ENERGY 146, GS 246)	Aut	3	Letter (ABCD/NP)		Graham, S. (PI); Mukerji, T. (PI); Al Ibrahim, M. (TA)
ENERGY	253	Carbon Capture and Sequestration (ENERGY 153)	Win	3-4	Letter (ABCD/NP)		Benson, S. (PI); Wilcox, J. (PI)
ENERGY	256	Electronic Structure Theory and Applications to Chemical Kinetics (CHEMENG 444)	Win	3	Letter or Credit/No Credit		Norskov, J. (PI); Wilcox, J. (PI)
ENERGY	260	Modeling Uncertainty in the Earth Sciences (ENERGY 160)	Win	3	Letter (ABCD/NP)		

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ENERGY	267	Engineering Valuation and Appraisal of Oil and Gas Wells, Facilities, and Properties (ENERGY 167)	Win	3	Letter or Credit/No Credit		Kourt, W. (PI); Pande, K. (PI)
ENERGY	269	Geothermal Reservoir Engineering	not given this year	3	Letter or Credit/No Credit		
ENERGY	271	Energy Infrastructure, Technology and Economics (ENERGY 171)	Aut	3	Letter or Credit/No Credit		Sears, R. (PI); Jardine, D. (TA)
ENERGY	273	Special Topics in Energy Resources Engineering	Aut, Win, Spr, Sum	1-3	Letter or Credit/No Credit		Aziz, K. (PI), et al.
ENERGY	275	Quantitative Methods in Basin and Petroleum System Modeling (GS 256)	Win	1-3	Letter or Credit/No Credit		Mukerji, T. (PI); Scheirer, A. (PI)
ENERGY	280	Oil and Gas Production Engineering (ENERGY 180)	not given this year	3	Letter (ABCD/NP)		
ENERGY	291	Optimization of Energy Systems (ENERGY 191)	Win	3-4	Letter (ABCD/NP)		
ENERGY	293B	Fundamentals of Energy Processes (EE 293B)	Win	3	Letter or Credit/No Credit		Brandt, A. (PI); Kovscek, A. (PI)
ENERGY	301	The Energy Seminar (CEE 301, MS&E 494)	Aut, Win, Spr	1	Satisfactory/No Credit		Weyant, J. (PI)
ENERGY	359	Teaching Experience in Energy Resources Engineering	Aut, Win, Spr	1	Satisfactory/No Credit		
ENERGY	360	Advanced Research Work in Energy Resources Engineering	Aut, Win, Spr, Sum	1-10	Satisfactory/No Credit		Aziz, K. (PI), et al.
ENGLISH	124	The American West (AMSTUD 124A, ARTHIST 152, HISTORY 151, POLISCI 124A)	Spr	5	Letter (ABCD/NP)	GER:DB-Hum, GER:EC-AmerCul, WAY-A-II, WAY-SI	Cain, B. (PI); Fishkin, S. (PI); Freyberg, D. (PI); Kennedy, D. (PI)
ENGLISH	140B	Space, Place, and Travel in Postmodern Literature	not given this year	5	Letter or Credit/No Credit	GER:DB-Hum	
ENGLISH	168	Imagining the Oceans (COMPLIT 168, FRENCH 168)	Spr	5	Letter (ABCD/NP)	GER:DB-Hum, WAY-A-II, WAY-ED	Cohen, M. (PI); Yang, R. (TA)
ENGLISH	262G	Globalization, Literature and the Environment	not given this year	5	Letter (ABCD/NP)		
ENGLISH	368A	Imagining the Oceans (COMPLIT 368A, FRENCH 368A)	Win	5	Letter or Credit/No Credit		Cohen, M. (PI)
ENGR	25E	Energy: Chemical Transformations for Production, Storage, and Use (CHEMENG 25E)	Win	3	Letter or Credit/No Credit	GER:DB-EngrAppSci	Jaramillo, T. (PI)
ENGR	90	Environmental Science and Technology (CEE 70)	Win, Sum	3	Letter or Credit/No Credit	GER:DB-EngrAppSci, WAY-AQR	Kopperud, R. (PI)
ENGR	113A	Solar Decathlon 2015 (ENGR 213A)	not given this year	3	Letter or Credit/No Credit		
ENGR	113B	Solar Decathlon 2015 (ENGR 213B)	not given this year	3	Letter or Credit/No Credit		
ENGR	113C	Solar Decathlon 2015 (ENGR 213C)	not given this year	3	Letter or Credit/No Credit		
ENGR	113D	SOLAR DECATHLON 2015 (ENGR 213D)	not given this year	3	Letter or Credit/No Credit		
ENGR	120	Fundamentals of Petroleum Engineering (ENERGY 120)	Aut	3	Letter or Credit/No Credit	GER:DB-EngrAppSci, WAY-FR, WAY-SMA	Agarwal, A. (PI); McClure, M. (PI)
ENGR	213	Solar Decathlon	not given this year	1-4	Satisfactory/No Credit		
ENGR	213A	Solar Decathlon 2015 (ENGR 113A)	not given this year	3	Letter or Credit/No Credit		
ENGR	213B	Solar Decathlon 2015 (ENGR 113B)	not given this year	3	Letter or Credit/No Credit		
ENGR	213C	Solar Decathlon 2015 (ENGR 113C)	not given this year	3	Letter or Credit/No Credit		

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ENGR	213D	SOLAR DECATHLON 2015 (ENGR 113D)	not given this year	3	Letter or Credit/No Credit	
ENVRES	201	The Energy Transformation Collaborative	Aut	3	Letter (ABCD/NP)	Heck, S. (PI); Best, R. (TA)
ENVRES	220	The Social Ocean: Ocean Conservation, Management, and Policy	Win	1-2	Letter or Credit/No Credit	
ENVRES	230	Field Survey Data Collection & Analysis	Spr	3	Letter or Credit/No Credit	Burke, W. (PI)
ENVRES	238	Commercial Agriculture Seminar	not given this year	1	Satisfactory/No Credit	
ENVRES	240	Environmental Decision- Making and Risk Perception	not given this year	1-3	Letter or Credit/No Credit	
ENVRES	250	Environmental Governance (CEE 277C)	Win, alternate years, not given next year	3	Letter or Credit/No Credit	Strong, A. (PI); Ulibarri, N. (PI)
ENVRES	270	Graduate Practicum in Environment and Resources	Aut, Win, Spr, Sum	1-5	Letter or Credit/No Credit	Vitousek, P. (PI)
ENVRES	275	The Practice of Mining and Its Social and Environmental Context	not given this year	2	Letter or Credit/No Credit	
ENVRES	280	Introduction to Environmental Science	Spr	2	Satisfactory/No Credit	Plambeck, E. (PI); Szeptycki, L. (PI)
ENVRES	290	Capstone Project Seminar in Environment and Resources	Aut, Win	1-3	Letter (ABCD/NP)	Richards, A. (PI); Vitousek, P. (PI)
ENVRES	315	Environmental Research Design Seminar	Win	1	Letter (ABCD/NP)	Reineman, D. (PI)
ENVRES	320	Designing Environmental Research	Win	3-4	Letter (ABCD/NP)	Davis, J. (PI)
ENVRES	330	Research Approaches for Environmental Problem Solving	Spr	3	Letter (ABCD/NP)	Ardoin, N. (PI); Vitousek, P. (PI)
ENVRES	380	Collaborating with the Future: Launching Large Scale Sustainable Transformations	Spr	3-4	Letter (ABCD/NP)	Banerjee, B. (PI); Gibbs-Plessl, T. (PI); Shiv, B. (PI); Sventina Nabergoj, A. (PI)
ENVRINST	109	Creating a Green Student Workforce to Help Implement Stanford's Sustainability Vision (CEE 109, EARTHSYS 109)	not given this year	2	Satisfactory/No Credit	
ENVRINST	177	Interdisciplinary Research Survival Skills (EARTHSYS 177, EARTHSYS 277, ENVRINST 277)	not given this year	2	Letter (ABCD/NP)	
ENVRINST	198	Prehonors Seminar	Spr	1	Satisfactory/No Credit	Diffenbaugh, N. (PI)
ENVRINST	199	Interschool Honors Program in Environmental Science, Technology, and Policy	Aut, Win, Spr	1-9	Letter (ABCD/NP)	Diffenbaugh, N. (PI)
ENVRINST	260	Water in the West: Challenges and Opportunities	not given this year	2-3	Letter or Credit/No Credit	
ENVRINST	277	Interdisciplinary Research Survival Skills (EARTHSYS 177, EARTHSYS 277, ENVRINST 177)	not given this year	2	Letter (ABCD/NP)	
ESS	10SC	In the Age of the Anthropocene: Coupled- Human Natural Systems of Southeast Alaska	not given this year	2	Letter (ABCD/NP)	
ESS	12SC	Environmental and Geological Field Studies in the Rocky Mountains (EARTHSYS 12SC, GS 12SC)	Sum	2	Letter (ABCD/NP)	Chamberlain, P. (PI)
ESS	37N	Climate Change: Science & Society (EARTHSYS 37N)	not given this year	3	Letter (ABCD/NP)	GER: DB-NatSci

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ESS	38N	The Worst Journey in the World: The Science, Literature, and History of Polar Exploration (EARTHSYS 38N, GS 38N)	Win	3	Letter (ABCD/NP)	GER: DB-NatSci	Dunbar, R. (PI)
ESS	39N	The Carbon Cycle: Reducing Your Impact (EARTHSYS 39N)	not given this year	3	Letter or Credit/No Credit	GER: DB-NatSci	
ESS	42	The Global Warming Paradox II (EARTHSYS 42)	not given this year	1	Letter or Credit/No Credit		
ESS	43	The Global Warming Paradox III	Spr	1	Letter or Credit/No Credit		
ESS	46N	Exploring the Critical Interface between the Land and Monterey Bay: Elkhorn Slough (EARTHSYS 46N)	Spr	3	Letter or Credit/No Credit	WAY-SMA	Francis, C. (PI)
ESS	49N	Multi-Disciplinary Perspectives on a Large Urban Estuary: San Francisco Bay (CEE 50N, EARTHSYS 49N)	alternate years, given next year	3	Letter or Credit/No Credit		
ESS	56Q	Changes in the Coastal Ocean: The View From Monterey and San Francisco Bays (EARTHSYS 56Q)	not given this year	3	Letter or Credit/No Credit	GER: DB-NatSci	
ESS	57Q	Climate Change from the Past to the Future (EARTHSYS 57Q)	not given this year	3	Letter or Credit/No Credit	WAY-SMA	
ESS	59Q	Climate Science Communication Using Social Media	not given this year	3	Letter or Credit/No Credit		
ESS	60	Food, Water and War: Life on the Mekong	not given this year	1	Letter or Credit/No Credit		
ESS	61Q	Food and security (EARTHSYS 61Q, INTNLREL 61Q)	Aut	3	Letter or Credit/No Credit		Naylor, R. (PI); Stedman, S. (PI)
ESS	101	Environmental and Geological Field Studies in the Rocky Mountains (EARTHSYS 100, GS 101)	Aut	3	Satisfactory/No Credit		Chamberlain, P. (PI)
ESS	105	Food and Community: New Visions for a Sustainable Future (EARTHSYS 105)	not given this year	3	Satisfactory/No Credit		
ESS	106	World Food Economy (EARTHSYS 106, EARTHSYS 206, ECON 106, ECON 206, ESS 206)	Spr	5	Letter or Credit/No Credit	WAY-SI	Burke, M. (PI); Naylor, R. (PI)
ESS	107	Control of Nature (EARTHSYS 107)	Spr	3	Letter or Credit/No Credit		Jackson, R. (PI)
ESS	111	Biology and Global Change (BIO 117, EARTHSYS 111)	Win	4	Letter or Credit/No Credit	GER: DB-NatSci, WAY-SMA	Arrigo, K. (PI); Vitousek, P. (PI)
ESS	112	Human Society and Environmental Change (EARTHSYS 112, HISTORY 103D)	Aut	4	Letter (ABCD/NP)	WAY-SI	Frank, Z. (PI); Naylor, R. (PI); Wolfe, M. (PI)
ESS	117	Earth Sciences of the Hawaiian Islands (EARTH 117, EARTHSYS 117)	alternate years, given next year	4	Letter (ABCD/NP)	WAY-SMA	
ESS	118	Understanding Natural Hazards, Quantifying Risk, Increasing Resilience in Highly Urbanized Regions (ESS 218, GEOPHYS 118, GEOPHYS 218, GS 118, GS 218)	Win	3	Letter or Credit/No Credit		Hilley, G. (PI)

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ESS	122	GIS for good: Applications of GIS for International Development and Humanitarian Assistance (EARTHSYS 127, ESS 222)	not given this year	3-4	Letter or Credit/No Credit		
ESS	134	Stable Isotopes in Biogeochemistry	not given this year	3	Letter (ABCD/NP)	GER: DB-NatSci	
ESS	134L	Stable Isotopes Laboratory	not given this year	2-3	Letter or Credit/No Credit		
ESS	141	Remote Sensing of the Oceans (EARTHSYS 141, EARTHSYS 241, ESS 241, GEOPHYS 141)	Win	3-4	Letter or Credit/No Credit	GER: DB-NatSci, WAY-AQR	Arrigo, K. (PI)
ESS	146A	Atmosphere, Ocean, and Climate Dynamics: The Atmospheric Circulation (EARTHSYS 146A, EARTHSYS 246A, ESS 246A, GEOPHYS 146A, GEOPHYS 246A)	Win	3	Letter or Credit/No Credit		Thomas, L. (PI)
ESS	146B	Atmosphere, Ocean, and Climate Dynamics: the Ocean Circulation (EARTHSYS 146B, EARTHSYS 246B, ESS 246B, GEOPHYS 146B, GEOPHYS 246B)	Spr	3	Letter or Credit/No Credit		Thomas, L. (PI)
ESS	148	Introduction to Physical Oceanography (CEE 164, CEE 262D, EARTHSYS 164)	Win	4	Letter (ABCD/NP)	GER: DB-NatSci	Fong, D. (PI)
ESS	151	Biological Oceanography (EARTHSYS 151, EARTHSYS 251, ESS 251)	Spr	3-4	Letter or Credit/No Credit	WAY-SMA	Arrigo, K. (PI)
ESS	152	Marine Chemistry (EARTHSYS 152, EARTHSYS 252, ESS 252)	Spr	3-4	Letter or Credit/No Credit	WAY-AQR, WAY-SMA	Casciotti, K. (PI)
ESS	155	Science of Soils (EARTHSYS 155)	Spr	3-4	Letter or Credit/No Credit	GER: DB-NatSci, WAY-SMA	Fendorf, S. (PI)
ESS	156	Soil and Water Chemistry (EARTHSYS 156, EARTHSYS 256, ESS 256)	alternate years, given next year	1-4	Letter or Credit/No Credit	GER: DB-NatSci, WAY-SMA	Fendorf, S. (PI)
ESS	158	Geomicrobiology (EARTHSYS 158, EARTHSYS 258, ESS 258)	alternate years, given next year	3	Letter or Credit/No Credit		
ESS	162	Remote Sensing of Land (EARTHSYS 142, EARTHSYS 242, ESS 262)	Win	4	Letter or Credit/No Credit		Lyons, E. (PI)
ESS	164	Fundamentals of Geographic Information Science (GIS) (EARTHSYS 144)	Aut	3-4	Letter or Credit/No Credit	GER: DB-NatSci	Lyons, E. (PI)
ESS	173	Aquaculture and the Environment: Science, History, and Policy (EARTHSYS 173, EARTHSYS 273, ESS 273)	not given this year	3	Letter or Credit/No Credit		
ESS	179S	Seminar: Issues in Environmental Science, Technology and Sustainability (CEE 179S, CEE 279S, EARTHSYS 179S)	Sum	1-2	Satisfactory/No Credit		Robertson, A. (PI)
ESS	181	Urban Agriculture in the Developing World (EARTHSYS 181, EARTHSYS 281, ESS 281, URBANST 181)	not given this year	3-4	Letter or Credit/No Credit		
ESS	183	Food Matters: Agriculture in Film (EARTHSYS 183, EARTHSYS 283, ESS 283)	Win	1	Satisfactory/No Credit		Archie, P. (PI); Bateman, J. (PI)

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ESS	184	Climate and Agriculture (EARTHSYS 184, EARTHSYS 284, ESS 284)	not given this year	3-4	Letter or Credit/No Credit	WAY-SMA
ESS	201	Climate Change and the IPCC World Food Economy (EARTHSYS 106, EARTHSYS 206, ECON 106, ECON 206, ESS 106)	not given this year	1-2	Letter or Credit/No Credit	
ESS	206		Spr	5	Letter or Credit/No Credit	
ESS	208	Topics in Geobiology (GS 208)	Aut	1	Satisfactory/No Credit	Francis, C. (PI); Payne, J. (PI)
ESS	211	Fundamentals of Modeling (EARTHSYS 211)	Aut	3-5	Letter or Credit/No Credit	Lobell, D. (PI)
ESS	212	Measurements in Earth Systems	Win	3-4	Letter (ABCD/NP)	Fendorf, S. (PI)
ESS	214	Introduction to geostatistics and modeling of spatial uncertainty	Spr	3-4	Letter (ABCD/NP)	
ESS	215	Earth System Dynamics	not given this year	2	Letter or Credit/No Credit	
ESS	216	Terrestrial Biogeochemistry (BIO 216)	not given this year, offered occasionally	3	Letter or Credit/No Credit	
ESS	217	Climate of the Cenozoic	not given this year	3	Letter (ABCD/NP)	
ESS	218	Understanding Natural Hazards, Quantifying Risk, Increasing Resilience in Highly Urbanized Regions (ESS 118, GEOPHYS 118, GEOPHYS 218, GS 118, GS 218)	Win	3	Letter or Credit/No Credit	Hilley, G. (PI)
ESS	219	Climate Variability during the Holocene: Understanding what is Natural Climate Change	not given this year	3	Satisfactory/No Credit	
ESS	220	Physical Hydrogeology (CEE 260A)	Aut	4	Letter (ABCD/NP)	Gorelick, S. (PI)
ESS	221	Contaminant Hydrogeology and Reactive Transport (CEE 260C, GS 225)	Win	4	Letter or Credit/No Credit	Gorelick, S. (PI); Maher, K. (PI)
ESS	234	Stable Isotopes in Biogeochemistry	not given this year	3	Letter (ABCD/NP)	
ESS	240	Advanced Oceanography	not given this year	3	Satisfactory/No Credit	
ESS	241	Remote Sensing of the Oceans (EARTHSYS 141, EARTHSYS 241, ESS 141, GEOPHYS 141)	Win	3-4	Letter or Credit/No Credit	GER: DB-NatSci, WAY-AQR Arrigo, K. (PI)
ESS	242	Antarctic Marine Geology (EARTHSYS 272)	given next year	3	Letter or Credit/No Credit	
ESS	244	Marine Ecosystem Modeling	Win	3	Letter (ABCD/NP)	Arrigo, K. (PI)
ESS	245	Advanced Biological Oceanography	not given this year	3-4	Letter (ABCD/NP)	
ESS	246A	Atmosphere, Ocean, and Climate Dynamics: The Atmospheric Circulation (EARTHSYS 146A, EARTHSYS 246A, ESS 146A, GEOPHYS 146A, GEOPHYS 246A)	Win	3	Letter or Credit/No Credit	Thomas, L. (PI)
ESS	246B	Atmosphere, Ocean, and Climate Dynamics: the Ocean Circulation (EARTHSYS 146B, EARTHSYS 246B, ESS 146B, GEOPHYS 146B, GEOPHYS 246B)	Spr	3	Letter or Credit/No Credit	; Thomas, L. (PI)

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ESS	249	Marine Stable Isotopes	alternate years, given next year not given this	3	Letter or Credit/No Credit	
ESS	250	Elkhorn Slough Microbiology	year	3	Letter or Credit/No Credit	
ESS	251	Biological Oceanography (EARTHSYS 151, EARTHSYS 251, ESS 151)	Spr	3-4	Letter or Credit/No Credit	Arrigo, K. (PI)
ESS	252	Marine Chemistry (EARTHSYS 152, EARTHSYS 252, ESS 152)	Spr	3-4	Letter or Credit/No Credit	Casciotti, K. (PI)
ESS	253S	Hopkins Microbiology Course (BIO 274S, BIOHOPK 274, CEE 274S)	Sum	3-12	Letter or Credit/No Credit	
ESS	254	Microbially Mediated Redox Processes	not given this year	3	Letter or Credit/No Credit	
ESS	255	Microbial Physiology (BIO 180, EARTHSYS 255, GS 233A)	Aut	3	Letter or Credit/No Credit	Welander, P. (PI)
ESS	256	Soil and Water Chemistry (EARTHSYS 156, EARTHSYS 256, ESS 156)	alternate years, given next year	1-4	Letter or Credit/No Credit	Fendorf, S. (PI)
ESS	257	Recent Developments in Microbial Redox Transformations	not given this year	2	Satisfactory/No Credit	
ESS	258	Geomicrobiology (EARTHSYS 158, EARTHSYS 258, ESS 158)	alternate years, given next year	3	Letter or Credit/No Credit	
ESS	259	Environmental Microbial Genomics	alternate years, given next year	1-3	Letter or Credit/No Credit	Francis, C. (PI)
ESS	260	Advanced Statistical Methods for Earth System Analysis (STATS 360)	Win	3	Letter or Credit/No Credit	Rajaratnam, B. (PI)
ESS	261	Molecular Microbial Biosignatures (GS 234A)	not given this year	1-3	Letter or Credit/No Credit	
ESS	262	Remote Sensing of Land (EARTHSYS 142, EARTHSYS 242, ESS 162)	Win	4	Letter or Credit/No Credit	Lyons, E. (PI)
ESS	263	Topics in Advanced Geostatistics (ENERGY 242)	not given this year	3-4	Letter (ABCD/NP)	
ESS	270	Analyzing land use in a globalized world	Spr	3	Letter or Credit/No Credit	Lambin, E. (PI)
ESS	273	Aquaculture and the Environment: Science, History, and Policy (EARTHSYS 173, EARTHSYS 273, ESS 173)	not given this year	3	Letter or Credit/No Credit	
ESS	280B	Principles and Practices of Sustainable Agriculture (EARTHSYS 180B)	Aut, Spr	3-4	Letter or Credit/No Credit	Archie, P. (PI)
ESS	281	Urban Agriculture in the Developing World (EARTHSYS 181, EARTHSYS 281, ESS 181, URBANST 181)	not given this year	3-4	Letter or Credit/No Credit	
ESS	282	Ecological Farm Management (EARTHSYS 182)	Win	1	Satisfactory/No Credit	Archie, P. (PI)
ESS	283	Food Matters: Agriculture in Film (EARTHSYS 183, EARTHSYS 283, ESS 183)	Win	1	Satisfactory/No Credit	Archie, P. (PI); Bateman, J. (PI)
ESS	284	Climate and Agriculture (EARTHSYS 184, EARTHSYS 284, ESS 184)	not given this year	3-4	Letter or Credit/No Credit	
ESS	292	Directed Individual Study in Environmental Earth System Science	Aut, Win, Spr, Sum	1-10	Letter or Credit/No Credit	Michalak, A. (PI); Naylor, R. (PI)
ESS	300	Climate studies of terrestrial environments	Spr	3	Letter (ABCD/NP)	Chamberlain, P. (PI)
ESS	301	Topics in Earth System Science	Aut, Win, Spr	1	Satisfactory/No Credit	Burke, M. (PI)

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ESS	305	Climate Change: An Earth Systems Perspective	Aut	2	Satisfactory/No Credit	Jackson, R. (PI)
ESS	306	From Freshwater to Oceans to Land Systems: An Earth System Perspective to Global Challenges	Win	2	Letter or Credit/No Credit	Lambin, E. (PI)
ESS	307	Research Proposal Development and Delivery	Spr	2	Letter (ABCD/NP)	
ESS	310	Seminar in Hydrogeology	not given this year	3	Letter or Credit/No Credit	
ESS	311	Seminar in Advanced Applications of Remote Sensing	not given this year	1	Letter or Credit/No Credit	
ESS	318	Global Land Use Change to 2050	not given this year	2-3	Letter or Credit/No Credit	
ESS	322A	Seminar in Hydrogeology	not given this year	1	Letter or Credit/No Credit	
ESS	322B	Seminar in Hydrogeology	Win	1	Letter or Credit/No Credit	Gorelick, S. (PI)
ESS	330	Advanced Topics in Hydrogeology	Win	1-2	Letter or Credit/No Credit	
ESS	342	Geostatistics	not given this year	1-2	Letter (ABCD/NP)	
ESS	342B	Geostatistics	not given this year	1-2	Letter (ABCD/NP)	
ESS	342C	Geostatistics	not given this year	1-2	Letter (ABCD/NP)	
ESS	363F	Oceanic Fluid Dynamics (CEE 363F)	given next year	3	Letter or Credit/No Credit	
ESS	364F	Advanced Topics in Geophysical Fluid Dynamics (CEE 364F)	not given this year	2-3	Letter or Credit/No Credit	
ESS	385	Practical Experience in the Geosciences	Aut, Win, Spr, Sum	1	Letter or Credit/No Credit	
ESS	398	Current Topics in Ecosystem Modeling	not given this year	1-2	Satisfactory/No Credit	
ETHICSOC	11Q	Sustainability And Social Justice (EARTHSYS 11Q)	Win	3	Letter or Credit/No Credit	WAY-ER
ETHICSOC	12	First Steps toward Sustainable Food Solutions: Weighing Political, Economic, and Ethical Trade-Offs	not given this year	1	Satisfactory/No Credit	
ETHICSOC	133	Ethics and Politics of Public Service (CSRE 178, HUMBIO 178, PHIL 175A, PHIL 275A, POLISCI 133, PUBLPOL 103D, URBANST 122)	Spr	5	Letter or Credit/No Credit	GER:DB-SocSci, WAY-ED, WAY-ER Schaubelt, T. (PI); Terra, L. (PI)
ETHICSOC	136R	Introduction to Global Justice (INTNLREL 136R, PHIL 76, POLISCI 136R, POLISCI 336)	Spr	4	Letter or Credit/No Credit	GER:DB-Hum, GER:EC-EthicReas, WAY-ER
ETHICSOC	165E	Residential Racial Segregation and the Education of African-American Youth	not given this year	3-5	Letter (ABCD/NP)	
ETHICSOC	174A	Moral Limits of the Market (PHIL 174A, PHIL 274A, POLISCI 135P)	not given this year	4	Letter or Credit/No Credit	GER:DB-Hum, GER:EC-EthicReas, WAY-A-II, WAY-ER
ETHICSOC	178M	Introduction to Environmental Ethics (ETHICSOC 278M, PHIL 178M, PHIL 278M, POLISCI 134L)	not given this year	4-5	Letter (ABCD/NP)	GER:EC-EthicReas, WAY-ER
ETHICSOC	180M	Collective Action Problems: Ethics, Politics, & Culture (PHIL 73, POLISCI 131A, PUBLPOL 304A)	Spr	3-4	Letter or Credit/No Credit	GER:EC-EthicReas, WAY-ER

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ETHICSOC	185M	Contemporary Moral Problems (PHIL 72, POLISCI 134P)	Win	4-5	Letter (ABCD/NP)	GER:EC-EthicReas, WAY-ER	Naaman, O. (PI)
ETHICSOC	278M	Introduction to Environmental Ethics (ETHICSOC 178M, PHIL 178M, PHIL 278M, POLISCI 134L)	not given this year	4-5	Letter (ABCD/NP)		
FEMGEN	129	Critical Issues in International Women's Health (HUMBIO 129)	Aut, Win	4	Letter (ABCD/NP)	GER:EC-Gender, WAY-ED	Murray, A. (PI)
FRENCH	168	Imagining the Oceans (COMPLIT 168, ENGLISH 168)	Spr	5	Letter (ABCD/NP)	GER:DB-Hum, WAY-A-II, WAY-ED	Cohen, M. (PI); Yang, R. (TA)
GEOPHYS	20N	Predicting Volcanic Eruptions	not given this year	3	Letter or Credit/No Credit	GER: DB-NatSci, WAY-AQR, WAY-SMA	
GEOPHYS	50N	Planetary Habitability, World View, and Sustainability	not given this year	3	Letter or Credit/No Credit	GER: DB-NatSci	
GEOPHYS	60N	Man versus Nature: Coping with Disasters Using Space Technology (EE 60N)	Aut	4	Letter or Credit/No Credit	GER:DB-EngrAppSci, WAY-SMA	Zebker, H. (PI)
GEOPHYS	70	The Water Course (EARTHSYS 104)	Win	3	Letter or Credit/No Credit	GER: DB-NatSci, WAY-AQR, WAY-SMA	Knight, R. (PI)
GEOPHYS	80	The Energy-Water Nexus (EARTHSYS 140)	alternate years, given next year	3	Letter or Credit/No Credit	WAY-AQR	
GEOPHYS	90	Earthquakes and Volcanoes (EARTHSYS 113)	Spr	3	Letter or Credit/No Credit	GER:DB-EngrAppSci, WAY-AQR, WAY-SMA	Segall, P. (PI)
GEOPHYS	110	Earth on the Edge: Introduction to Geophysics	Win	3	Letter or Credit/No Credit	GER: DB-NatSci, WAY-AQR, WAY-SMA	Harris, J. (PI)
GEOPHYS	112	Exploring Geosciences with MATLAB	Aut	1-3	Letter or Credit/No Credit		Mukerji, T. (PI)
GEOPHYS	118	Understanding Natural Hazards, Quantifying Risk, Increasing Resilience in Highly Urbanized Regions (ESS 118, ESS 218, GEOPHYS 218, GS 118, GS 218)	Win	3	Letter or Credit/No Credit		Hilley, G. (PI)
GEOPHYS	120	Ice, Water, Fire (GEOPHYS 220)	Spr	3-5	Letter or Credit/No Credit	GER: DB-NatSci, WAY-FR, WAY-SMA	Dunham, E. (PI)
GEOPHYS	130	Introductory Seismology	Aut	3	Letter or Credit/No Credit	GER: DB-NatSci, WAY-AQR, WAY-SMA	Beroza, G. (PI)
GEOPHYS	141	Remote Sensing of the Oceans (EARTHSYS 141, EARTHSYS 241, ESS 141, ESS 241)	Win	3-4	Letter or Credit/No Credit	GER: DB-NatSci, WAY-AQR	Arrigo, K. (PI)
GEOPHYS	146A	Atmosphere, Ocean, and Climate Dynamics: The Atmospheric Circulation (EARTHSYS 146A, EARTHSYS 246A, ESS 146A, ESS 246A, GEOPHYS 246A)	Win	3	Letter or Credit/No Credit		Thomas, L. (PI)
GEOPHYS	146B	Atmosphere, Ocean, and Climate Dynamics: the Ocean Circulation (EARTHSYS 146B, EARTHSYS 246B, ESS 146B, ESS 246B, GEOPHYS 246B)	Spr	3	Letter or Credit/No Credit		Thomas, L. (PI)

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GEOPHYS	150	Geodynamics: Our Dynamic Earth	not given this year	3	Letter or Credit/No Credit	GER: DB-NatSci, WAY-SMA	
GEOPHYS	160	D ³ : Disasters, Decisions, Development	Win	3-5	Letter (ABCD/NP)	WAY-AQR, WAY-SMA	Suckale, J. (PI)
GEOPHYS	162	Laboratory Methods in Geophysics (GEOPHYS 259)	Aut	3-4	Letter (ABCD/NP)		Vanorio, T. (PI)
GEOPHYS	170	Global Tectonics	not given this year	3	Letter or Credit/No Credit	WAY-SMA	
GEOPHYS	171	Tectonics Field Trip	not given this year	1-3	Satisfactory/No Credit		
GEOPHYS	181	Fluids and Flow in the Earth: Computational Methods (GEOPHYS 203)	not given this year	3	Letter (ABCD/NP)		
GEOPHYS	182	Reflection Seismology (GEOPHYS 222)	Aut	3	Letter or Credit/No Credit	GER: DB-NatSci	Biondi, B. (PI)
GEOPHYS	183	Reflection Seismology Interpretation (GEOPHYS 223, GS 223)	Spr	1-4	Satisfactory/No Credit	WAY-SMA	Graham, S. (PI); Klemperer, S. (PI)
GEOPHYS	184	Journey to the Center of the Earth (GEOPHYS 274, GS 107, GS 207)	not given this year	3	Letter or Credit/No Credit	WAY-SMA	
GEOPHYS	185	Rock Physics for Reservoir Characterization (GEOPHYS 260)	Spr	3	Letter or Credit/No Credit		Dvorkin, J. (PI)
GEOPHYS	186	Tectonophysics (GEOPHYS 290)	not given this year	3	Letter or Credit/No Credit		
GEOPHYS	190	Near-Surface Geophysics	not given this year	3	Letter or Credit/No Credit	GER:DB-EngrAppSci, WAY-SMA	
GEOPHYS	191	Observing Freshwater	Aut	3	Letter (ABCD/NP)		Lakshmi, V. (PI)
GEOPHYS	199	Senior Seminar: Issues in Earth Sciences	Aut	3	Letter (ABCD/NP)		Sleep, N. (PI); Bydlon, S. (TA)
GEOPHYS	201	Frontiers of Geophysical Research at Stanford: Faculty Lectures	Aut	1	Satisfactory/No Credit		Zebker, H. (PI)
GEOPHYS	202	Reservoir Geomechanics	Spr	3	Letter (ABCD/NP)		Zoback, M. (PI)
GEOPHYS	203	Fluids and Flow in the Earth: Computational Methods (GEOPHYS 181)	not given this year	3	Letter (ABCD/NP)		
GEOPHYS	204	Spectral Finite Element Method (SPECFEM) Seismograms	not given this year	3	Letter (ABCD/NP)		
GEOPHYS	205	Effective Scientific Presentation and Public Speaking	Aut	2	Letter or Credit/No Credit		Stein, R. (PI)
GEOPHYS	206	FLUID DYNAMICS OF THE SOLID EA	not given this year	3	Letter or Credit/No Credit		
GEOPHYS	208	Unconventional Reservoir Geomechanics	Spr	3	Letter (ABCD/NP)		
GEOPHYS	210	Basic Earth Imaging	Aut	2-3	Letter or Credit/No Credit		Clapp, R. (PI)
GEOPHYS	211	Environmental Soundings Image Estimation	Win	3	Letter or Credit/No Credit		Claerbout, J. (PI)
GEOPHYS	212	Topics in Climate Change	Win	2	Letter or Credit/No Credit		Bassrei, A. (PI)
GEOPHYS	217	Numerical Methods in Engineering and Applied Sciences (AA 214A, CME 207)	Aut	3	Letter or Credit/No Credit		Gerritsen, M. (PI); Suckale, J. (PI)
GEOPHYS	218	Understanding Natural Hazards, Quantifying Risk, Increasing Resilience in Highly Urbanized Regions (ESS 118, ESS 218, GEOPHYS 118, GS 118, GS 218)	Win	3	Letter or Credit/No Credit		Hilley, G. (PI)

Environmental Courses 2015-2016

GEOPHYS	220	Ice, Water, Fire (GEOPHYS 120)	Spr	3-5	Letter or Credit/No Credit	Dunham, E. (PI)
GEOPHYS	222	Reflection Seismology (GEOPHYS 182)	Aut	3	Letter or Credit/No Credit	Biondi, B. (PI)
GEOPHYS	223	Reflection Seismology Interpretation (GEOPHYS 183, GS 223)	Spr	1-4	Satisfactory/No Credit	Graham, S. (PI); Klemperer, S. (PI)
GEOPHYS	224	Seismic Reflection Processing	Win	2-3	Satisfactory/No Credit	Klemperer, S. (PI); Levin, S. (PI)
GEOPHYS	229	Earthquake Rupture Dynamics	not given this year	3	Letter or Credit/No Credit	
GEOPHYS	235	WAVES AND FIELDS IN GEOPHYSICS	not given this year	3	Letter (ABCD/NP)	
GEOPHYS	240	Borehole Seismic Modeling and Imaging	alternate years, given next year	3	Letter or Credit/No Credit	
GEOPHYS	241A	Seismic Reservoir Characterization (ENERGY 141, ENERGY 241)	Spr	3-4	Letter (ABCD/NP)	Mukerji, T. (PI)
GEOPHYS	246A	Atmosphere, Ocean, and Climate Dynamics: The Atmospheric Circulation (EARTHSYS 146A, EARTHSYS 246A, ESS 146A, ESS 246A, GEOPHYS 146A)	Win	3	Letter or Credit/No Credit	Thomas, L. (PI)
GEOPHYS	246B	Atmosphere, Ocean, and Climate Dynamics: the Ocean Circulation (EARTHSYS 146B, EARTHSYS 246B, ESS 146B, ESS 246B, GEOPHYS 146B)	Spr	3	Letter or Credit/No Credit	Thomas, L. (PI)
GEOPHYS	251	Structural Geology and Rock Mechanics (CEE 297R, GS 215)	Win	4	Letter or Credit/No Credit	Pollard, D. (PI)
GEOPHYS	255	Report on Energy Industry Training	Aut, Win, Spr, Sum	1-3	Satisfactory/No Credit	Beroza, G. (PI), et al.
GEOPHYS	257	Introduction to Computational Earth Sciences	Win	2-4	Letter or Credit/No Credit	Clapp, R. (PI)
GEOPHYS	258	Applied Optimization Laboratory (Geophys 258) (EE 257)	not given this year	3-4	Letter or Credit/No Credit	
GEOPHYS	259	Laboratory Methods in Geophysics (GEOPHYS 162)	Aut	3-4	Letter (ABCD/NP)	Vanorio, T. (PI)
GEOPHYS	260	Rock Physics for Reservoir Characterization (GEOPHYS 185)	Spr	3	Letter or Credit/No Credit	Dvorkin, J. (PI)
GEOPHYS	262	Rock Physics	Aut	3	Letter (ABCD/NP)	Mavko, G. (PI)
GEOPHYS	265	Imaging Radar and Applications (EE 355)	Win	3	Letter or Credit/No Credit	Zebker, H. (PI)
GEOPHYS	270	Electromagnetic Properties of Geological Materials	Spr	2-3	Letter or Credit/No Credit	Knight, R. (PI)
GEOPHYS	274	Journey to the Center of the Earth (GEOPHYS 184, GS 107, GS 207)	not given this year	3	Letter or Credit/No Credit	
GEOPHYS	280	3-D Seismic Imaging	Spr	2-3	Letter or Credit/No Credit	Biondi, B. (PI)
GEOPHYS	281	Geophysical Inverse Problems	not given this year	3	Letter or Credit/No Credit	
GEOPHYS	284	Hydrogeophysics	offered occasionally	3	Letter (ABCD/NP)	
GEOPHYS	286	Global Seismology	not given this year	3	Letter (ABCD/NP)	
GEOPHYS	287	Earthquake Seismology	not given this year	3-5	Letter or Credit/No Credit	
GEOPHYS	288A	Crustal Deformation	Aut	3-5	Letter or Credit/No Credit	Segall, P. (PI)
GEOPHYS	288B	Crustal Deformation	Win	3-5	Letter or Credit/No Credit	Segall, P. (PI)

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GEOPHYS	289	Global Positioning System in Earth Sciences	alternate years, given next year	3-5	Letter or Credit/No Credit	
GEOPHYS	290	Tectonophysics (GEOPHYS 186)	not given this year	3	Letter or Credit/No Credit	
GEOPHYS	292	Magnetotellurics: Introduction, practical data analysis and inversion	Win	3	Satisfactory/No Credit	
GEOPHYS	385A	Reflection Seismology	Aut, Win, Spr, Sum	1-2	Letter or Credit/No Credit	Biondi, B. (PI); Clapp, R. (PI)
GEOPHYS	385B	Environmental Geophysics	Aut, Win, Spr, Sum	1-2	Letter or Credit/No Credit	Knight, R. (PI)
GEOPHYS	385D	Theoretical Geophysics	Aut, Win, Spr, Sum	1	Satisfactory/No Credit	Dunham, E. (PI)
GEOPHYS	385E	Tectonics	Aut, Win, Spr, Sum	1-2	Satisfactory/No Credit	Klemperer, S. (PI); Sleep, N. (PI)
GEOPHYS	385J	Global Seismic Techniques, Theory, and Application	not given this year	1-2	Letter or Credit/No Credit	
GEOPHYS	385K	Crustal Mechanics	Aut, Win, Spr, Sum	1-2	Letter or Credit/No Credit	Zoback, M. (PI)
GEOPHYS	385L	Earthquake Seismology, Deformation, and Stress	Aut, Win, Spr, Sum	1	Satisfactory/No Credit	Beroza, G. (PI); Dunham, E. (PI); Segall, P. (PI); Zoback, M. (PI)
GEOPHYS	385N	Experimental Rock Physics	Aut, Win, Spr, Sum	1-2	Letter or Credit/No Credit	Vanorio, T. (PI)
GEOPHYS	385S	Wave Physics	Aut, Win, Spr, Sum	1-2	Satisfactory/No Credit	Harris, J. (PI)
GEOPHYS	385V	Poroelasticity	Aut, Win, Spr, Sum	1-2	Letter or Credit/No Credit	Mavko, G. (PI)
GEOPHYS	385W	GEOPHYSICAL MULTI-PHASE FLOWS	Aut, Win, Spr, Sum	1-2	Letter or Credit/No Credit	
GEOPHYS	385Z	Radio Remote Sensing	Aut, Win, Spr, Sum	1-2	Letter or Credit/No Credit	Zebker, H. (PI); Zoback, M. (PI)
GERMAN	285	Environmentalism, Literature and Cultural Criticism	not given this year	3-5	Letter or Credit/No Credit	
GS	1A	Introduction to Geology: The Physical Science of the Earth	Spr	5	Letter or Credit/No Credit	GER: DB-NatSci, WAY-AQR, WAY-SMA
GS	1B	Introduction to Geology	not given this year	4	Letter or Credit/No Credit	GER: DB-NatSci, WAY-FR, WAY-SMA
GS	1C	Introduction to Geology: Dynamic Earth	not given this year	4	Letter or Credit/No Credit	GER: DB-NatSci, WAY-SMA
GS	4	How to Build and Maintain a Habitable Planet: An Introduction to Earth System History (EARTHSYS 4)	Win	4	Letter or Credit/No Credit	GER: DB-NatSci, WAY-SMA
GS	5	Living on the Edge	Aut	1	Satisfactory/No Credit	Payne, J. (PI)
GS	8	Oceanography: An Introduction to the Marine Environment	Aut	1	Credit	Miller, E. (PI)
GS	8	Oceanography: An Introduction to the Marine Environment	not given this year	3	Letter or Credit/No Credit	GER: DB-NatSci
GS	12SC	Environmental and Geological Field Studies in the Rocky Mountains (EARTHSYS 12SC, ESS 12SC)	Sum	2	Letter (ABCD/NP)	Chamberlain, P. (PI)
GS	38N	The Worst Journey in the World: The Science, Literature, and History of Polar Exploration (EARTHSYS 38N, ESS 38N)	Win	3	Letter (ABCD/NP)	GER: DB-NatSci Dunbar, R. (PI)
GS	40N	Diamonds	not given this year	3	Letter or Credit/No Credit	GER: DB-NatSci, WAY-SMA
GS	42N	Landscapes and Tectonics of the San Francisco Bay Area	Aut	4	Letter (ABCD/NP)	WAY-AQR, WAY-SMA Hilley, G. (PI)

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GS	43Q	Environmental Problems	Win	3	Letter (ABCD/NP)	GER: DB-NatSci	Loague, K. (PI)
GS	46Q	Environmental Impact of Energy Systems: What are the Risks? (EARTHSYS 46Q)	Win	3	Letter (ABCD/NP)		Ewing, R. (PI)
GS	55Q	The California Gold Rush: Geologic Background and Environmental Impact	Win	3	Letter or Credit/No Credit	GER: DB-NatSci, WAY-SMA, Writing 2	Bird, D. (PI)
GS	59N	The Legacy of Fukushima Daiichi	Spr	3	Letter or Credit/No Credit		Ewing, R. (PI)
GS	90	Introduction to Geochemistry	Win	3-4	Letter or Credit/No Credit	GER: DB-NatSci, WAY-SMA	Stebbins, J. (PI)
GS	101	Environmental and Geological Field Studies in the Rocky Mountains (EARTHSYS 100, ESS 101)	Aut	3	Satisfactory/No Credit		Chamberlain, P. (PI)
GS	102	Earth Materials: Introduction to Mineralogy	Aut	4	Letter or Credit/No Credit	GER: DB-NatSci, WAY-SMA	Brown, G. (PI); Mao, W. (PI)
GS	103	Earth Materials: Rocks in Thin Section	Win	3	Letter (ABCD/NP)		Miller, E. (PI)
GS	104	Introduction to Petrology (GS 204)	Spr	4	Letter or Credit/No Credit		Mahood, G. (PI)
GS	105	Introduction to Field Methods	Aut, Spr	3	Letter or Credit/No Credit	WAY-SMA	Grove, M. (PI)
GS	107	Journey to the Center of the Earth (GEOPHYS 184, GEOPHYS 274, GS 207)	not given this year	3	Letter or Credit/No Credit	WAY-SMA	
GS	110	Structural Geology and Tectonics	Spr	3-5	Letter (ABCD/NP)	GER: DB-NatSci	Miller, E. (PI)
GS	111	Fundamentals of Structural Geology (CEE 195)	Win	3	Letter or Credit/No Credit	WAY-FR, WAY- SMA	Pollard, D. (PI)
GS	115	Engineering Geology and Global Change (CEE 196)	not given this year	3	Letter or Credit/No Credit	GER: DB-NatSci	
GS	118	Understanding Natural Hazards, Quantifying Risk, Increasing Resilience in Highly Urbanized Regions (ESS 118, ESS 218, GEOPHYS 118, GEOPHYS 218, GS 218)	Win	3	Letter or Credit/No Credit		Hilley, G. (PI)
GS	121	What Makes a Habitable Planet? (GES 221)	not given this year	3	Letter or Credit/No Credit		
GS	122	Planetary Systems: Dynamics and Origins (GS 222)	Win	3-4	Letter or Credit/No Credit		Lissauer, J. (PI); Marley, M. (PI)
GS	123	Paleobiology (EARTHSYS 122, GS 223B)	Spr	4	Letter or Credit/No Credit	GER: DB-NatSci, WAY-SMA	Payne, J. (PI)
GS	128	Evolutionary History of Terrestrial Ecosystems (EARTHSYS 128, GS 228)	Win	4	Letter (ABCD/NP)		Boyce, C. (PI)
GS	130	Soil Physics and Hydrology	Aut	3	Letter (ABCD/NP)	GER: DB-NatSci, WAY-SMA	Loague, K. (PI)
GS	131	Hydrologically-Driven Landscape Evolution	Win	3	Letter (ABCD/NP)	GER: DB-NatSci, WAY-SMA	Loague, K. (PI)
GS	135	Field and Analytical Methods in Historical Geobiology (GS 235)	Spr	4	Letter (ABCD/NP)		
GS	150	Senior Seminar: Issues in Earth Sciences	Aut	3	Letter (ABCD/NP)		Bird, D. (PI)
GS	151	Sedimentary Geology and Petrography: Depositional Systems	Spr	4	Letter or Credit/No Credit	GER: DB-NatSci	Graham, S. (PI); Lowe, D. (PI)
GS	163	Introduction to Isotope Geochemistry (GS 263)	not given this year	3	Letter or Credit/No Credit		

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GS	170	Environmental Geochemistry (EARTHSYS 170, GS 270)	Win	4	Letter (ABCD/NP)	GER: DB-NatSci	Brown, G. (PI)
GS	171	Geochemical Thermodynamics	Aut	3	Letter or Credit/No Credit	GER: DB-NatSci	Bird, D. (PI)
GS	180	Igneous Processes	Spr	4	Letter (ABCD/NP)		
GS	182	Field Seminar on Continental- Margin Volcanism	Aut	2	Satisfactory/No Credit		Mahood, G. (PI)
GS	184	Field Seminar on Eastern Sierran Volcanism	not given this year	1	Satisfactory/No Credit		
GS	185	Volcanology (GS 285A)	Aut	3-4	Letter or Credit/No Credit	GER: DB-NatSci	Mahood, G. (PI)
GS	190	Research in the Field	Aut, Spr	3	Letter (ABCD/NP)		Grove, M. (PI)
GS	191	GS Field Trips (EARTH 191)	Win, Spr, Sum	1	Satisfactory/No Credit		Petterson, R. (PI)
GS	198	Special Problems in Geological Sciences	Aut, Win, Spr, Sum	1-10	Letter or Credit/No Credit		Aydin, A. (PI), et al.
GS	204	Introduction to Petrology (GS 104)	Spr	4	Letter or Credit/No Credit		Mahood, G. (PI)
GS	206	Topics in Organismal Paleobiology	Aut	2-3	Letter or Credit/No Credit		Boyce, C. (PI)
GS	207	Journey to the Center of the Earth (GEOPHYS 184, GEOPHYS 274, GS 107)	not given this year	3	Letter or Credit/No Credit		
GS	208	Topics in Geobiology (ESS 208)	Aut	1	Satisfactory/No Credit		Francis, C. (PI); Payne, J. (PI)
GS	209	Microstructures	not given this year	3-5	Letter (ABCD/NP)		
GS	210	Geologic Evolution of the Western U.S. Cordillera	not given this year	1-3	Letter or Credit/No Credit		
GS	211	Topics in Regional Geology and Tectonics	not given this year	2-3	Letter or Credit/No Credit		
GS	212	Topics in Tectonic Geomorphology	not given this year	2	Satisfactory/No Credit		
GS	213	Topics in Sedimentary Geology	Aut, Win not given this year	2	Satisfactory/No Credit		Lowe, D. (PI)
GS	214	Topics in Paleobiology	not given this year	2	Satisfactory/No Credit		
GS	215	Structural Geology and Rock Mechanics (CEE 297R, GEOPHYS 251)	Win	4	Letter or Credit/No Credit		Pollard, D. (PI)
GS	218	Understanding Natural Hazards, Quantifying Risk, Increasing Resilience in Highly Urbanized Regions (ESS 118, ESS 218, GEOPHYS 118, GEOPHYS 218, GS 118)	Win	3	Letter or Credit/No Credit		Hilley, G. (PI)
GS	222	Planetary Systems: Dynamics and Origins (GS 122)	Win	3-4	Letter or Credit/No Credit		Lissauer, J. (PI); Marley, M. (PI)
GS	223	Reflection Seismology Interpretation (GEOPHYS 183, GEOPHYS 223)	Spr	1-4	Satisfactory/No Credit		Graham, S. (PI); Klemperer, S. (PI)
GS	223B	Paleobiology (EARTHSYS 122, GS 123)	Spr	4	Letter or Credit/No Credit		Payne, J. (PI)
GS	225	Contaminant Hydrogeology and Reactive Transport (CEE 260C, ESS 221)	Win	4	Letter or Credit/No Credit		Gorelick, S. (PI); Maher, K. (PI)
GS	226	At the intersection of geochemistry, sedimentary geology, and paleobiology	not given this year	3	Letter or Credit/No Credit		
GS	228	Evolutionary History of Terrestrial Ecosystems (EARTHSYS 128, GS 128)	Win	4	Letter (ABCD/NP)		Boyce, C. (PI)
GS	233A	Microbial Physiology (BIO 180, EARTHSYS 255, ESS 255)	Aut	3	Letter or Credit/No Credit		Welander, P. (PI)

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GS	234A	Molecular Microbial Biosignatures (ESS 261)	not given this year	1-3	Letter or Credit/No Credit	
GS	235	Field and Analytical Methods in Historical Geobiology (GS 135)	Spr	4	Letter (ABCD/NP)	
GS	237	Surface and Near-Surface Hydrologic Response (CEE 260B)	not given this year	3	Letter or Credit/No Credit	
GS	238	Soil Physics	Aut	3	Letter or Credit/No Credit	
GS	240	Geostatistics (ENERGY 240)	Spr	2-3	Letter (ABCD/NP)	Caers, J. (PI)
GS	246	Reservoir Characterization and Flow Modeling with Outcrop Data (ENERGY 146, ENERGY 246)	Aut	3	Letter (ABCD/NP)	Graham, S. (PI); Mukerji, T. (PI); Al Ibrahim, M. (TA)
GS	248	The Petroleum System: Investigative method to explore for conventional & unconventional hydrocarbons	Aut	1	Satisfactory/No Credit	Magoon, L. (PI); Scheirer, A. (PI)
GS	249	Petroleum Geochemistry in Environmental and Earth Science	alternate years, given next year	3	Letter (ABCD/NP)	
GS	250	Sedimentation Mechanics	not given this year	3-4	Letter or Credit/No Credit	
GS	251	Sedimentary Basins	Aut	3	Letter or Credit/No Credit	Graham, S. (PI); Sickmann, Z. (PI)
GS	252	Sedimentary Petrography	Aut	4	Letter or Credit/No Credit	Lowe, D. (PI)
GS	253	Petroleum Geology and Exploration	Spr	3	Letter or Credit/No Credit	Graham, S. (PI)
GS	254	Carbonate Sedimentology	not given this year	3-4	Letter or Credit/No Credit	
GS	255	Basin and Petroleum System Modeling	not given this year	3	Letter or Credit/No Credit	
GS	256	Quantitative Methods in Basin and Petroleum System Modeling (ENERGY 275)	Win	1-3	Letter or Credit/No Credit	Mukerji, T. (PI); Scheirer, A. (PI)
GS	257	Clastic Sequence Stratigraphy	Spr	3	Letter or Credit/No Credit	
GS	258	Introduction to Depositional Systems	not given this year	3	Letter or Credit/No Credit	
GS	259	Stratigraphic Architecture	not given this year	1	Satisfactory/No Credit	
GS	261	Physics and Chemistry of Minerals and Mineral Surfaces	not given this year	4	Letter (ABCD/NP)	
GS	262	Thermodynamics and Disorder in Minerals and Melts	not given this year	3	Letter (ABCD/NP)	
GS	263	Introduction to Isotope Geochemistry (GS 163)	not given this year	3	Letter or Credit/No Credit	
GS	266	Managing Nuclear Waste: Technical, Political and Organizational Challenges (IPS 266)	not given this year	3	Letter or Credit/No Credit	
GS	270	Environmental Geochemistry (EARTHSYS 170, GS 170)	Win	4	Letter (ABCD/NP)	Brown, G. (PI)
GS	273	Isotope Geochemistry Seminar	Win	1-3	Letter or Credit/No Credit	Maher, K. (PI)
GS	276	Earth's Weathering Engine	not given this year	3	Letter or Credit/No Credit	
GS	281	Principles of $^{40}\text{Ar}/^{39}\text{Ar}$ Thermochronometry	not given this year	3-4	Letter (ABCD/NP)	
GS	282	Interpretative Methods in Detrital Geochronology	not given this year	3	Satisfactory/No Credit	
GS	283	Thermochronology and Crustal Evolution	not given this year	4	Letter or Credit/No Credit	

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GS	284	Field Seminar on Eastern Sierran Volcanism	not given this year	1	Satisfactory/No Credit	
GS	285	Igneous Petrogenesis of the Continents	not given this year	2-4	Letter or Credit/No Credit	
GS	285A	Volcanology (GS 185)	Aut	3-4	Letter or Credit/No Credit	Mahood, G. (PI)
GS	286	Secondary Ionization Mass Spectrometry	not given this year	3	Letter or Credit/No Credit	
GS	287	Fundamentals of Mass Spectrometry	not given this year	3	Letter or Credit/No Credit	
GS	290	Departmental Seminar in Geological and Environmental Sciences	Aut, Win, Spr	1	Satisfactory/No Credit	Boyce, C. (PI)
GS	291	GS Field Trips	Aut, Win, Spr, Sum	1	Satisfactory/No Credit	Aydin, A. (PI), et al.
GS	311	Interpretation of Tectonically Active Landscapes	Aut	3	Letter (ABCD/NP)	Hilley, G. (PI)
GS	312	Analysis of Landforms	not given this year	3	Letter or Credit/No Credit	
GS	313	Modeling of Landforms	not given this year	3	Letter or Credit/No Credit	
GS	315	Literature of Structural Geology	Aut, Win, Spr	1	Satisfactory/No Credit	Pollard, D. (PI)
GS	325	The Evolution of Body Size (BIO 325)	not given this year	2	Satisfactory/No Credit	
GS	328	Seminar in Paleobiology	not given this year	1	Satisfactory/No Credit	
GS	336	Stanford Alpine Project Seminar	Aut, Win, Spr	1	Satisfactory/No Credit	
GS	373	METAMORPHIC PETROLOGY	not given this year	3	Letter or Credit/No Credit	
GS	373L	Metamorphic Petrology Laboratory	not given this year	1	Letter or Credit/No Credit	
GS	381	Igneous Petrology and Petrogenesis Seminar	not given this year	1-2	Satisfactory/No Credit	
GS	385	Practical Experience in the Geosciences	Aut, Win, Spr, Sum	1	Letter or Credit/No Credit	Aydin, A. (PI), et al.
GSBGEN	332	Sustainable Energy: Business Opportunities and Public Policy		3	GSB Student Option LTR/PF	Reichelstein, S. (PI); Reicher, D. (SI); Wood, D. (SI); Pham, J. (GP)
GSBGEN	335	Clean Energy Project Development and Finance		3	GSB Letter Graded	Reicher, D. (PI); Brown, J. (SI); Rogers, D. (SI)
GSBGEN	336	Energy Markets and Policy		3	GSB Student Option LTR/PF	Wolak, F. (PI); Thurber, M. (SI)
GSBGEN	337	Business Collaboration to Promote a Sustainable Food System		3	GSB Student Option LTR/PF	
GSBGEN	532	Cleantech: Business Fundamentals and Public Policy		2	GSB Student Option LTR/PF	
GSBGEN	533	Sustainability as Market Strategy		2	GSB Pass/Fail	
GSBGEN	537	The Role of Business in Sustainable Food Systems		1	GSB Pass/Fail	
GSBGEN	538	Energy Policy, Markets, and Climate Change		2	GSB Letter Graded	
GSBGEN	553	Intrapreneurship for Sustainability: Driving Environmental Change from Within Corporations		2	GSB Letter Graded	
GSBGEN	585	Social Innovation through Corporate Social Responsibility		2	GSB Pass/Fail	

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HISTORY	1B	Global History: The Early Modern World, 1300 to 1800	Win	3-5	Letter or Credit/No Credit	GER:DB-Hum, GER:EC-GlobalCom, WAY-ED, WAY-SI	Stokes, L. (PI)
HISTORY	18SC	The Federal Government and the West (POLISCI 18SC)	not given this year	2	Letter (ABCD/NP)		
HISTORY	19SC	Land and Water Policies in the West	not given this year	2	Satisfactory/No Credit		
HISTORY	23SC	People, Land, and Water in the Heart of the West (EARTHYSYS 13SC)	not given this year	2	Satisfactory/No Credit		
HISTORY	40	World History of Science	Win	3	Letter (ABCD/NP)	GER:DB-SocSci, WAY-ED, WAY-SI	Proctor, R. (PI)
HISTORY	40A	The Scientific Revolution	Aut	3	Letter (ABCD/NP)	WAY-A-II, WAY-SI	Riskin, J. (PI)
HISTORY	42	Darwin in the History of Life	not given this year	3	Letter or Credit/No Credit	GER:DB-SocSci	
HISTORY	42S	The Circle of Life: Visions of Nature in Modern Science, Religion, Politics and Culture	not given this year, offered once only	5	Letter (ABCD/NP)	GER:DB-Hum	
HISTORY	44	Women and Gender in Science, Medicine and Engineering	Spr	3	Letter or Credit/No Credit	GER:DB-SocSci, GER:EC-Gender, WAY-ED, WAY-SI	Schiebinger, L. (PI)
HISTORY	44Q	Gendered Innovations in Science, Medicine, Engineering, and Environment	Spr	4-5	Letter (ABCD/NP)	GER:EC-Gender, WAY-ED, WAY-SI, Writing 2	Schiebinger, L. (PI)
HISTORY	45	Darwin in the History of Life	not given this year	5	Letter (ABCD/NP)	GER:DB-SocSci	
HISTORY	47	History of South Africa (AFRICAAM 47)	Aut	3	Letter or Credit/No Credit	GER:DB-SocSci, GER:EC-GlobalCom, WAY-ED, WAY-SI	Campbell, J. (PI)
HISTORY	98B	The Construction of Modern China in Time and Space	not given this year	3	Letter or Credit/No Credit	GER:DB-SocSci, GER:EC-GlobalCom	
HISTORY	102	History of the International System (INTNLREL 102)	Spr	5	Letter (ABCD/NP)	GER:DB-SocSci, GER:EC-GlobalCom, WAY-SI	Naimark, N. (PI)
HISTORY	103D	Human Society and Environmental Change (EARTHYSYS 112, ESS 112)	Aut	4	Letter (ABCD/NP)	WAY-SI	Frank, Z. (PI); Naylor, R. (PI); Wolfe, M. (PI)
HISTORY	106A	Global Human Geography: Asia and Africa	Spr	5	Letter or Credit/No Credit	GER:DB-SocSci, GER:EC-GlobalCom, WAY-SI	Lewis, M. (PI)
HISTORY	106B	Global Human Geography: Europe and Americas	Aut	5	Letter or Credit/No Credit	GER:DB-SocSci, GER:EC-GlobalCom, WAY-SI	Lewis, M. (PI)
HISTORY	140	World History of Science	Win	5	Letter (ABCD/NP)	GER:DB-SocSci, WAY-ED, WAY-SI	Proctor, R. (PI)
HISTORY	142	Darwin in the History of Life	not given this year	5	Letter or Credit/No Credit	GER:DB-SocSci	

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HISTORY	144	Women and Gender in Science, Medicine and Engineering (FEMGEN 144)	Spr	5	Letter or Credit/No Credit	GER:DB-SocSci, GER:EC-Gender, WAY-ED, WAY-SI	Schiebinger, L. (PI)
HISTORY	147	History of South Africa (AFRICAAM 147)	Aut	5	Letter or Credit/No Credit	GER:DB-SocSci, GER:EC-GlobalCom, WAY-Campbell, J. (PI); ED, WAY-SI	Temple, M. (TA)
HISTORY	151	The American West (AMSTUD 124A, ARTHIST 152, ENGLISH 124, POLISCI 124A)	Spr	5	Letter (ABCD/NP)	GER:DB-Hum, GER:EC-AmerCul, WAY-A-II, WAY-SI	Cain, B. (PI); Fishkin, S. (PI); Freyberg, D. (PI); Kennedy, D. (PI)
HISTORY	169	Environmental Crises and Historical Change	not given this year	4-5	Letter or Credit/No Credit	GER:DB-SocSci	
HISTORY	198B	The Construction of Modern China through Space and Time	not given this year	5	Letter or Credit/No Credit	GER:DB-SocSci, GER:EC-GlobalCom	
HISTORY	202B	Coffee, Sugar, and Chocolate: Commodities and Consumption in World History, 1200-1800 (HISTORY 302B)	Win	4-5	Letter (ABCD/NP)	WAY-SI	Findlen, P. (PI)
HISTORY	203G	Mobile Food: A Global Food History (HISTORY 303G)	Aut	4-5	Letter or Credit/No Credit		Kaller, M. (PI)
HISTORY	203J	Water in World History (HISTORY 303J)	Aut	4-5	Letter or Credit/No Credit	WAY-SI	Wolfe, M. (PI)
HISTORY	206	History and Geography of Contemporary Global Issues	not given this year	5	Letter (ABCD/NP)	GER:DB-SocSci	
HISTORY	207B	Environment, Technology and Revolution in World History	not given this year	4-5	Letter (ABCD/NP)		
HISTORY	208A	Science and Law in History	not given this year	4-5	Letter (ABCD/NP)	GER:DB-SocSci, WAY-A-II, WAY-SI	
HISTORY	226E	Famine in the Modern World (HISTORY 326E, PEDS 226)	Win	3	Medical Option (Med-Ltr-CR/NC)		Patenaude, B. (PI)
HISTORY	232F	The Scientific Revolution	not given this year	5	Letter (ABCD/NP)		
HISTORY	243C	People, Plants, and Medicine: Atlantic World Amerindian, African, and European Science (HISTORY 343C)	Win	4-5	Letter or Credit/No Credit	GER:DB-SocSci, GER:EC-GlobalCom, WAY-ED, WAY-SI	Schiebinger, L. (PI)
HISTORY	243J	Climate Change in the West: A History of the Future	not given this year	5	Letter or Credit/No Credit		
HISTORY	243S	Human Origins: History, Evidence, and Controversy (HISTORY 443A)	not given this year	4-5	Letter (ABCD/NP)	GER:DB-SocSci	
HISTORY	245E	Health and Society in Africa	not given this year	4-5	Letter (ABCD/NP)	GER:DB-SocSci, GER:EC-GlobalCom	
HISTORY	254	Popular Culture and American Nature	not given this year	5	Letter or Credit/No Credit	GER:DB-Hum, WAY-A-II, WAY-SI	
HISTORY	268S	American Wests: Studies in Culture and the Environment	not given this year	4-5	Letter (ABCD/NP)	GER:DB-Hum	
HISTORY	277B	Environmental History of Latin America	not given this year	5	Letter (ABCD/NP)		
HISTORY	278S	The Ethical Challenges of Climate Change (HISTORY 478)	not given this year	4-5	Letter or Credit/No Credit	GER:EC-EthicReas, WAY-ER, WAY-SI	

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HISTORY	283	The New Global Economy, Oil and Origins of the Arab Spring (HISTORY 383)	not given this year	4-5	Letter (ABCD/NP)	GER:DB-SocSci, WAY-SI
HISTORY	291F	Yangtze: Nature, History, and the River	not given this year	5	Letter (ABCD/NP)	
HISTORY	302B	Coffee, Sugar, and Chocolate: Commodities and Consumption in World History, 1200-1800 (HISTORY 202B)	Win	4-5	Letter (ABCD/NP)	Findlen, P. (PI)
HISTORY	303G	Mobile Food: A Global Food History (HISTORY 203G)	Aut	4-5	Letter or Credit/No Credit	Kaller, M. (PI)
HISTORY	303J	Water in World History (HISTORY 203J)	Aut	4-5	Letter or Credit/No Credit	Wolfe, M. (PI)
HISTORY	307B	Environment, Technology and Revolution in World History (HISTORY 207B)	not given this year	4-5	Letter (ABCD/NP)	
HISTORY	308A	Science and Law in History	not given this year	4-5	Letter (ABCD/NP)	
HISTORY	309E	History Meets Geography	not given this year	4-5	Letter (ABCD/NP)	
HISTORY	326E	Famine in the Modern World (HISTORY 226E, PEDS 226)	Win	3	Medical Option (Med-Ltr-CR/NC)	Patenaude, B. (PI)
HISTORY	332F	The Scientific Revolution	not given this year	5	Letter (ABCD/NP)	
HISTORY	342	Darwin in the History of Life	not given this year	4-5	Letter (ABCD/NP)	
HISTORY	343C	People, Plants, and Medicine: Atlantic World Amerindian, African, and European Science (HISTORY 243C)	Win	4-5	Letter or Credit/No Credit	Schiebinger, L. (PI)
HISTORY	347E	Health and Society in Africa	not given this year	4-5	Letter (ABCD/NP)	
HISTORY	383	The New Global Economy, Oil and Origins of the Arab Spring (HISTORY 283)	not given this year	4-5	Letter (ABCD/NP)	
HISTORY	457A	American Wests: Studies in Culture and the Environment	not given this year	4-5	Letter (ABCD/NP)	
HISTORY	457B	American Wests: Studies in Culture and the Environment	not given this year	4-5	Letter or Credit/No Credit	
HISTORY	458	Environmental History	not given this year	4-5	Letter or Credit/No Credit	
HISTORY	471A	Environmental History of Latin America	not given this year	5	Letter (ABCD/NP)	
HISTORY	471B	Environmental History of Latin America	not given this year	5	Letter (ABCD/NP)	
HISTORY	478	The Ethical Challenges of Climate Change (HISTORY 278S)	not given this year	4-5	Letter or Credit/No Credit	
HRP	206	Meta-research: Appraising Research Findings, Bias, and Meta-analysis (CHPR 206, MED 206, STATS 211)	Win	3	Medical Satisfactory/No Credit	Ioannidis, J. (PI)
HRP	214	Scientific Writing	Win	2-3	Medical Satisfactory/No Credit	
HRP	216	Analytical and Practical Issues in the Conduct of Clinical and Epidemiologic Research	Spr	2-3	Medical Option (Med-Ltr-CR/NC)	Popat, R. (PI)
HRP	220	BIOTECHNOLOGY LAW AND POLICY	not given this year	3	Medical Option (Med-Ltr-CR/NC)	
HRP	223	Introduction to Data Management and Analysis in SAS	Aut	2	Medical Satisfactory/No Credit	Park, L. (PI); Popat, R. (PI)

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HRP	225	Design and Conduct of Clinical and Epidemiologic Studies	Aut	3-4	Medical Option (Med-Ltr-CR/NC)	Popat, R. (PI)
HRP	226	Advanced Epidemiologic and Clinical Research Methods	Win	3-4	Medical Option (Med-Ltr-CR/NC)	
HRP	228	Genetic Epidemiology	not given this year	2	Medical Satisfactory/No Credit	
HRP	230	Cancer Epidemiology	not given this year	2-3	Medical Option (Med-Ltr-CR/NC)	
HRP	231	Epidemiology of Infectious Diseases	Spr	3	Medical Option (Med-Ltr-CR/NC)	
HRP	236	Epidemiology Research Seminar	Aut, Win, Spr	1	Medical Satisfactory/No Credit	Henderson, V. (PI)
HRP	238	Genes and Environment in Disease Causation: Implications for Medicine and Public Health (HUMBIO 159)	Win	2-3	Medical Option (Med-Ltr-CR/NC)	Popat, R. (PI)
HRP	241	Measuring Global Health	not given this year	4	Medical Option (Med-Ltr-CR/NC)	
HRP	256	Economics of Health and Medical Care (BIOMEDIN 156, BIOMEDIN 256, ECON 126)	Aut	5	Medical Option (Med-Ltr-CR/NC)	Bhattacharya, J. (PI)
HRP	259	Introduction to Probability and Statistics for Epidemiology	Aut	3-4	Medical Option (Med-Ltr-CR/NC)	Sainani, K. (PI)
HRP	274	Design for Service Innovation (BIOE 372, MED 274)	not given this year	4	Medical Option (Med-Ltr-CR/NC)	Durham, W. (PI);
HUMBIO	2A	Genetics, Evolution, and Ecology	Aut	5	Letter (ABCD/NP)	GER: DB-NatSci, Preston, K. (PI); WAY-SMA Talbot, W. (PI)
HUMBIO	2B	Culture, Evolution, and Society	Aut	5	Letter (ABCD/NP)	GER:DB-SocSci, WAY-SI, WAY-SMA Klein, R. (PI); Scheidel, W. (PI)
HUMBIO	3B	Behavior, Health, and Development	Win	5	Letter (ABCD/NP)	GER:DB-SocSci Fernald, A. (PI); Lyons, D. (PI)
HUMBIO	4B	Environmental and Health Policy Analysis	Spr	5	Letter (ABCD/NP)	GER:DB-SocSci Baker, L. (PI); Nation, J. (PI)
HUMBIO	5E	Science Education in Human Biology	Spr	1	Satisfactory/No Credit	Salmeen, A. (PI)
HUMBIO	17SC	Darwin, Evolution, and Galapagos	not given this year	2	Letter (ABCD/NP)	Durham, W. (PI)
HUMBIO	18SC	Conservation and Development Dilemmas in the Amazon (ANTHRO 11SC)	not given this year	2	Letter (ABCD/NP)	
HUMBIO	19SC	Parks and Peoples: Dilemmas of Protected Area Conservation in East Africa	not given this year	2	Letter (ABCD/NP)	
HUMBIO	111	Human Dimensions of Global Environmental Change: Resilience, Vulnerability, and Environmental Justice (ANTHRO 173)	not given this year	3	Letter (ABCD/NP)	
HUMBIO	111M	Marine Resource Economics and Conservation (EARTHSYS 156M, ECON 156)	not given this year	5	Letter or Credit/No Credit	WAY-SI
HUMBIO	112	Conservation Biology: A Latin American Perspective (BIO 144, BIO 234)	Spr	3	Letter or Credit/No Credit	GER: DB-NatSci Dirzo, R. (PI)
HUMBIO	113	The Human-Plant Connection	Spr	3	Letter or Credit/No Credit	WAY-SMA Preston, K. (PI)

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		Healthy/Sustainable Food Systems: Maximum Sustainability across Health, Economics, and Environment (CHPR 213)	Win	4	Letter (ABCD/NP)		Gardner, C. (PI)
HUMBIO	114	Environmental Change and Emerging Infectious Diseases (ANTHRO 177, ANTHRO 277)	not given this year	3-5	Letter or Credit/No Credit	GER:DB-SocSci	
HUMBIO	116	Controlling Climate Change in the 21st Century	not given this year	3	Letter (ABCD/NP)	GER: DB-NatSci, GER:DB-SocSci,	
HUMBIO	117H	Human Behavioral Ecology (ANTHRO 161, ANTHRO 261)	not given this year	3-5	Letter (ABCD/NP)	WAY-SI, WAY-SMA	
HUMBIO	118	Theory of Ecological and Environmental Anthropology (ANTHRO 90C)	Win	5	Letter or Credit/No Credit	GER:DB-SocSci, WAY-ED, WAY-SI	Hazel, M. (PI)
HUMBIO	121E	Ethnicity and Medicine (FAMMED 244)	Spr	1-3	Medical Option (Med-Ltr-CR/NC)	WAY-ED	Garcia, R. (PI)
HUMBIO	122M	Challenges of Human Migration: Health and Health Care of Migrants and Autochthonous Populations (PEDS 212)	Spr	3	Medical Option (Med-Ltr-CR/NC)	WAY-ED, WAY-SI	Rodriguez, E. (PI)
HUMBIO	125	Current Controversies in Women's Health (FEMGEN 256, OBGYN 256)	Spr	2-3	Medical Option (Med-Ltr-CR/NC)	GER:EC-Gender	Stefanick, M. (PI)
HUMBIO	126	Promoting Health Over the Life Course: Multidisciplinary Perspectives (CHPR 226)	Aut	3	Letter or Credit/No Credit		Alles, W. (PI); Stefanick, M. (PI)
HUMBIO	129	Critical Issues in International Women's Health (FEMGEN 129)	Aut, Win	4	Letter (ABCD/NP)	GER:EC-Gender, WAY-ED	Murray, A. (PI)
HUMBIO	129M	Measuring Global Health	not given this year	4	Medical Option (Med-Ltr-CR/NC)	WAY-AQR, WAY-SMA	
HUMBIO	130	Human Nutrition (CHPR 231)	Spr	4	Letter or Credit/No Credit	WAY-SMA	Gardner, C. (PI)
HUMBIO	151R	Biology, Health and Big Data	Spr	3	Letter or Credit/No Credit		Salmeen, A. (PI)
HUMBIO	152	Viral Lifestyles	Spr	3	Letter or Credit/No Credit		Wolfe, N. (PI)
HUMBIO	153	Parasites and Pestilence: Infectious Public Health Challenges	Win	4	Letter or Credit/No Credit		Smith, D. (PI)
HUMBIO	154A	Disease control systems: epidemics, outbreaks, and modeling for public health (CHPR 254)	Aut	4	Letter (ABCD/NP)	WAY-AQR	Basu, S. (PI)
HUMBIO	155H	Humans and Viruses I (MI 155H)	not given this year	6	Letter (ABCD/NP)		
HUMBIO	158G	Genomics, Bioinformatics and Medicine	not given this year	3	Medical Option (Med-Ltr-CR/NC)	GER: DB-NatSci, WAY-SMA	
HUMBIO	159	Genes and Environment in Disease Causation: Implications for Medicine and Public Health (HRP 238)	Win	2-3	Medical Option (Med-Ltr-CR/NC)	WAY-SMA	Popat, R. (PI)
HUMBIO	166	Food and Society: Exploring Eating Behaviors in Social, Environmental, and Policy Context (CHPR 266)	not given this year	4	Letter (ABCD/NP)		
HUMBIO	173	Science, Innovation and the Law	Aut	5	Letter (ABCD/NP)		Abrams, W. (PI)

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HUMBIO	178	Ethics and Politics of Public Service (CSRE 178, ETHICSOC 133, PHIL 175A, PHIL 275A, POLISCI 133, PUBLPOL 103D, URBANST 122)	Spr	5	Letter or Credit/No Credit	GER:DB-SocSci, WAY-ED, WAY-ER	Schnaubelt, T. (PI); Terra, L. (PI)
HUMBIO	182	Peopling of the Globe: Changing Patterns of Land Use and Consumption Over the Last 50,000 Years (ARCHLGY 12)	not given this year	3-5	Letter (ABCD/NP)	GER:DB-SocSci	
ILAC	263	Visions of the Andes (ILAC 363)	not given this year	3-5	Letter or Credit/No Credit	WAY-A-II	
ILAC	264	Visions of the Andes (ILAC 364)	not given this year	3-5	Letter (ABCD/NP)		
ILAC	271	Brazilian Presence: Landscape, Life and Literature	not given this year	3-5	Letter or Credit/No Credit	GER:EC-GlobalCom	
ILAC	363	Visions of the Andes (ILAC 263)	not given this year	3-5	Letter or Credit/No Credit		
ILAC	364	Visions of the Andes (ILAC 264)	not given this year	3-5	Letter (ABCD/NP)		
INTNLREL	61Q	Food and security (EARTHSYS 61Q, ESS 61Q)	Aut	3	Letter or Credit/No Credit		Naylor, R. (PI); Stedman, S. (PI)
INTNLREL	102	History of the International System (HISTORY 102)	Spr	5	Letter (ABCD/NP)	GER:DB-SocSci, GER:EC-GlobalCom, WAY-SI	Naimark, N. (PI)
INTNLREL	118	The Political Economy of Modern Iran	not given this year	5	Letter or Credit/No Credit		
INTNLREL	128B	International Problem-Solving Through NGOs: Policy, Players, Strategies, and Ethics (PUBLPOL 128, PUBLPOL 228)	not given this year	2	Letter or Credit/No Credit		
INTNLREL	135A	International Environmental Law and Policy	Win	3-5	Letter (ABCD/NP)	WAY-SI	Lutomski, P. (PI)
INTNLREL	136R	Introduction to Global Justice (ETHICSOC 136R, PHIL 76, POLISCI 136R, POLISCI 336)	Spr	4	Letter or Credit/No Credit	GER:DB-Hum, GER:EC-EthicReas, WAY-ER	
INTNLREL	143	Nongovernmental Organizations and Development in Poor Countries	not given this year	5	Letter (ABCD/NP)	GER:DB-SocSci	
INTNLREL	146A	Energy and Climate Cooperation in the Western Hemisphere	offered occasionally	4	Letter (ABCD/NP)		
INTNLREL	170	ENERGY AND CLIMATE	not given this year	5	Letter (ABCD/NP)		
IPS	201	Managing Global Complexity	Spr	3	Letter (ABCD/NP)		Grinberg, M. (PI)
IPS	203	Issues in International Economics	Win	5	Letter (ABCD/NP)		Anggraini, N. (PI); Aturupane, C. (PI)
IPS	263	Energy and Climate Cooperation in the Western Hemisphere	offered occasionally	4	Letter (ABCD/NP)		
IPS	270	The Geopolitics of Energy	Win	3-5	Letter (ABCD/NP)		Jojarth, C. (PI)
LATINAM	202	Human Ecology of the Amazon	not given this year	5	Letter (ABCD/NP)		
LATINAM	207	Spanish in Science/Science in Spanish (BIO 208, EARTHSYS 207)	Spr	2	Satisfactory/No Credit		Dirzo, R. (PI)
LATINAM	302	Human Ecology of the Amazon	not given this year	5	Letter (ABCD/NP)		

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LAW	281	Natural Resources Law and Policy	not given this year	3	Law Honors/Pass/R credit/Fail	
LAW	338	Land Use	not given this year	3	Law Honors/Pass/R credit/Fail	
LAW	368	Law and Biosciences: Neuroscience	Win	3	Law Honors/Pass/R credit/Fail	Greely, H. (PI)
LAW	395	Creating New Legal Tools to Address the Environmental Impacts of Energy Projects	not given this year	3	Law Honors/Pass/R credit/Fail	
LAW	413O	Policy Practicum: China's Solar Industry and its Global Implications	not given this year	2-3	Law Honors/Pass/R credit/Fail	
LAW	413P	Policy Practicum: Wildlife Trafficking: Stopping the Scourge	not given this year	2	Law Honors/Pass/R credit/Fail	
LAW	413R	Policy Practicum: The National Environmental Policy Act: Pushing the Reset Button	not given this year	2	Law Honors/Pass/R credit/Fail	
LAW	413S	Policy Practicum: Carbon Pollution Standards and Carbon Taxes	not given this year	2	Law Honors/Pass/R credit/Fail	
LAW	413Y	Policy Practicum: Catalyzing Nature-Based Coastal Flood Mitigation and Adaptation	not given this year	2	Law Mandatory P/R/F	
LAW	414A	Policy Practicum: Central Valley Habitat Exchange	not given this year	3	Law Honors/Pass/R credit/Fail	
LAW	414G	Policy Practicum: Energy and Environmental Governance	not given this year	1-3	Law Honors/Pass/R credit/Fail	
LAW	414Q	Policy Practicum: Developing a Federal Framework for Climate Change Policy	Aut	3	Law Honors/Pass/R credit/Fail	Hayes, D. (PI)
LAW	432	Managing Natural Resources In the Face of Climate Change and Other Stressors Workshop	Win	2-3	Law Mixed H/P/R/F or MP/R/F	Hayes, D. (PI)
LAW	437	Water Law and Policy	Aut	3	Law Honors/Pass/R credit/Fail	Thompson, B. (PI)
LAW	440	Biotechnology Law and Policy	not given this year	3	Law Honors/Pass/R credit/Fail	
LAW	455	Energy Law	Spr	3	Law Honors/Pass/R credit/Fail	Wara, M. (PI)
LAW	510	Climate and Energy Seminar	not given this year	3	Law Honors/Pass/R credit/Fail	
LAW	514	California Coast: Science, Policy and Law	Spr	4	Law Honors/Pass/R credit/Fail	
LAW	515	Sustainable Energy: Business Opportunities and Public Policy	Aut	3	Law Mandatory P/R/F	Reichelstein, S. (PI); Reicher, D. (SI); Wood, D. (SI); Pham, J. (GP)
LAW	603	Environmental Law and Policy	Spr	3	Law Honors/Pass/R credit/Fail	Wara, M. (PI)
LAW	605	International Environmental Law	Aut	3	Law Honors/Pass/R credit/Fail	Wara, M. (PI)

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LAW	622A	Environmental Law Clinic: Clinical Practice	Aut, Win	4	Law Honors/Pass/R credit/Fail	Sivas, D. (PI); Thesing, A. (PI)
LAW	622B	Environmental Law Clinic: Clinical Methods	Aut, Win	4	Law Honors/Pass/R credit/Fail	Sivas, D. (PI); Thesing, A. (PI)
LAW	622C	Environmental Law Clinic: Clinical Coursework	Aut, Win	4	Law Honors/Pass/R credit/Fail	Sivas, D. (PI); Thesing, A. (PI)
LAW	623	Advanced Environmental Law Clinic	Aut, Win, Spr	2-7	Law Honors/Pass/R credit/Fail	Sanders, M. (PI); Sivas, D. (PI); Thesing, A. (PI)
LAW	681I	The Sea Around Us: Ethical, Physical, and Emotional Connections Between Humans and the Ocean	Win, Spr	1	Law Mandatory P/R/F	Sivas, D. (PI)
LAW	746	Climate Change Policy: Economic, Legal, and Political Analysis	not given this year	4	Law Honors/Pass/R credit/Fail	
LAW	768	Environmental Justice	not given this year	3	Law Honors/Pass/R credit/Fail	
LAW	774	Clean Energy Project Development and Finance	Win	3	Law Honors/Pass/R credit/Fail	Reicher, D. (PI); Brown, J. (SI); Rogers, D. (SI)
LAW	776	U.S. and International Issues in the Changing Arctic	not given this year	3	Law Honors/Pass/R credit/Fail	
MATSCI	11SC	Energy Technologies for a Sustainable Future	not given this year	2	Letter (ABCD/NP)	
MATSCI	154	Thermodynamic Evaluation of Green Energy Technologies Solar Cells, Fuel Cells, and Batteries: Materials for the Energy Solution (EE 293A, ENERGY 293A, MATSCI 256)	Spr	4	Letter or Credit/No Credit	GER:DB- EngrAppSci, WAY-SMA Chueh, W. (PI)
MATSCI	156	Solar Cells, Fuel Cells, and Batteries: Materials for the Energy Solution (EE 293A, ENERGY 293A, MATSCI 156)	Aut	3-4	Letter or Credit/No Credit	GER:DB- EngrAppSci Clemens, B. (PI)
MATSCI	256	Solar Cells, Fuel Cells, and Batteries: Materials for the Energy Solution (EE 293A, ENERGY 293A, MATSCI 156)	Aut	3-4	Letter or Credit/No Credit	Clemens, B. (PI)
MATSCI	302	Solar Cells	Aut	3	Letter or Credit/No Credit	McGehee, M. (PI)
MATSCI	303	Principles, Materials and Devices of Batteries	Aut	3	Letter or Credit/No Credit	Li, Y. (PI)
ME	16N	Energy & The Industrial Revolution - Past, Present & Future	not given this year	3	Letter or Credit/No Credit	
ME	23Q	The Worldly Engineer	not given this year	3	Letter or Credit/No Credit	
ME	24N	Designing the Car of the Future	not given this year	3	Letter or Credit/No Credit	GER:DB- EngrAppSci
ME	25N	Energy Sustainability and Climate Change	not given this year	3	Letter or Credit/No Credit	
ME	70	Introductory Fluids Engineering	Aut, Win, Spr	4	Letter or Credit/No Credit	GER:DB- EngrAppSci Cappelli, M. (PI); Lentink, D. (PI); Tang, S. (PI)
ME	185	Electric Vehicle Design	not given this year	3	Letter (ABCD/NP)	
ME	206A	Entrepreneurial Design for Extreme Affordability	Win	4	Letter (ABCD/NP)	Beach, D. (PI); Coulson, S. (PI); Gorodsky, J. (PI); Patell, J. (PI)
ME	206B	Entrepreneurial Design for Extreme Affordability	Spr	4	Letter (ABCD/NP)	Beach, D. (PI); Coulson, S. (PI); Gorodsky, J. (PI); Patell, J. (PI)
ME	214	Good Products, Bad Products (ME 314)	Win	3-4	Letter or Credit/No Credit	GER:DB- EngrAppSci Beach, D. (PI)

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ME	221	Green Design Strategies and Metrics	not given this year	2	Letter or Credit/No Credit	
ME	222	Design for Sustainability	not given this year	2-3	Letter or Credit/No Credit	
ME	226	Designing Sustainable Behavior	not given this year	1	Satisfactory/No Credit	
ME	250	Internal Combustion Engines	Aut	1-5	Letter or Credit/No Credit	Edwards, C. (PI)
ME	257	Turbine and Internal Combustion Engines (ME 357)	Spr	3	Letter or Credit/No Credit	Ihme, M. (PI)
ME	260	Fuel Cell Science and Technology	Spr	3	Letter or Credit/No Credit	Prinz, F. (PI)
ME	262	Physics of Wind Energy (CEE 261)	Win	3	Letter or Credit/No Credit	Dabiri, J. (PI)
ME	314	Good Products, Bad Products (ME 214)	Win	3-4	Letter or Credit/No Credit	Beach, D. (PI)
ME	357	Turbine and Internal Combustion Engines (ME 257)	Spr	3	Letter or Credit/No Credit	Ihme, M. (PI)
ME	370A	Energy Systems I: Thermodynamics	Aut	3	Letter or Credit/No Credit	Mitchell, R. (PI)
ME	370B	Energy Systems II: Modeling and Advanced Concepts	Win	4	Letter or Credit/No Credit	Edwards, C. (PI)
ME	370C	Energy Systems III: Projects	Spr	3-5	Letter or Credit/No Credit	Edwards, C. (PI)
ME	371	Combustion Fundamentals	Win	3	Letter or Credit/No Credit	Bowman, C. (PI)
ME	399	Fuel Cell Seminar	not given this year	1	Satisfactory/No Credit	
MED	108Q	Human Rights and Health	Spr	3	Letter or Credit/No Credit	Laws, A. (PI)
MED	231	Measuring Global Health	not given this year	4	Medical Option (Med-Ltr-CR/NC)	
MED	274	Design for Service Innovation (BIOE 372, HRP 274)	not given this year	4	Medical Option (Med-Ltr-CR/NC)	
MGTECON	651	Natural Resource and Energy Economics		4	GSB Letter Graded	
MI	70Q	Photographing Nature	Spr	3	Satisfactory/No Credit	Siegel, R. (PI)
MI	155H	Humans and Viruses I (HUMBIO 155H)	not given this year	6	Letter (ABCD/NP)	
MLA	282	Indigenous Peoples and Environmental Problems	not given this year	4	Letter (ABCD/NP)	
MS&E	52	Introduction to Decision Making	Sum	3	Letter or Credit/No Credit	Robinson, B. (PI)
MS&E	92Q	International Environmental Policy	Win	3	Letter or Credit/No Credit	Weyant, J. (PI)
MS&E	93Q	Nuclear Weapons, Energy, Proliferation, and Terrorism	Spr	3	Letter or Credit/No Credit	GER:DB-EngrAppSci Hecker, S. (PI)
MS&E	152	Introduction to Decision Analysis (MS&E 152W)	Spr	3-4	Letter or Credit/No Credit	GER:DB-EngrAppSci, WAY-AQR, WAY-FR Shachter, R. (PI)
MS&E	152W	Introduction to Decision Analysis (MS&E 152)	Spr	3-4	Letter or Credit/No Credit	GER:DB-EngrAppSci, WAY-AQR, WAY-FR Shachter, R. (PI)
MS&E	181	Issues in Technology and Work for a Postindustrial Economy	not given this year	3	Letter (ABCD/NP)	WAY-SI
MS&E	185	Global Work	Win, Spr	4	Letter (ABCD/NP)	Hinds, P. (PI); Siino, R. (PI)
MS&E	190	Methods and Models for Policy and Strategy Analysis	Spr	3	Letter or Credit/No Credit	

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MS&E	197	Ethics, Technology, and Public Policy	not given this year	5	Letter (ABCD/NP)	GER:DB-Hum, GER:EC-EthicReas, WAY-ER
MS&E	243	Energy and Environmental Policy Analysis	Spr	3	Letter or Credit/No Credit	Sweeney, J. (PI)
MS&E	250A	Engineering Risk Analysis	Win	3	Letter or Credit/No Credit	Pate-Cornell, E. (PI)
MS&E	250B	Project Course in Engineering Risk Analysis	Spr	3	Letter or Credit/No Credit	Pate-Cornell, E. (PI)
MS&E	252	Decision Analysis I: Foundations of Decision Analysis	Aut	3-4	Letter or Credit/No Credit	Howard, R. (PI); Chen, X. (GP); Jung, J. (GP); Liu, W. (GP); Martin, P. (GP)
MS&E	264	Sustainable Product Development and Manufacturing	not given this year	3-4	Letter or Credit/No Credit	
MS&E	292	Health Policy Modeling	Win	3	Letter or Credit/No Credit	Brandeau, M. (PI)
MS&E	294	Climate Policy Analysis	Win, alternate years, not given next year	3	Letter or Credit/No Credit	Weyant, J. (PI)
MS&E	295	Energy Policy Analysis	alternate years, given next year	3	Letter or Credit/No Credit	
MS&E	299	Voluntary Social Systems	Win	1-3	Letter or Credit/No Credit	Howard, R. (PI)
MS&E	352	Decision Analysis II: Professional Decision Analysis	Win	3-4	Letter or Credit/No Credit	Howard, R. (PI)
MS&E	453	Decision Analysis Applications: Business Strategy and Public Policy	Win	2-3	Letter or Credit/No Credit	Robinson, B. (PI)
MS&E	494	The Energy Seminar (CEE 301, ENERGY 301)	Aut, Win, Spr	1	Satisfactory/No Credit	Weyant, J. (PI)
NATIVEAM	109A	Federal Indian Law (CSRE 109A)	not given this year	5	Letter (ABCD/NP)	
NATIVEAM	109B	Indian Country Economic Development (CSRE 109B)	Win	3	Letter (ABCD/NP)	Biestman, K. (PI)
NATIVEAM	118C	Community and Nation Building in Native North America	not given this year	5	Letter or Credit/No Credit	
OBGYN	256	Current Controversies in Women's Health (FEMGEN 256, HUMBIO 125)	Spr	2-3	Medical Option (Med-Ltr-CR/NC)	Stefanick, M. (PI)
OIT	333	Design for Extreme Affordability		4	GSB Letter Graded	Beach, D. (PI); Coulson, S. (PI); Gorodsky, J. (PI); Patell, J. (PI)
OIT	334	Design for Extreme Affordability		4	GSB Letter Graded	Patell, J. (PI)
OIT	539	Environmental Science for Managers - Advanced		3	GSB Letter Graded	
OIT	540	Environmental Science for Managers II		1	GSB Student Option LTR/PF	
OSPAUSTL	10	Coral Reef Ecosystems	Aut	3	Letter (ABCD/NP)	GER:DB-EngrAppSci, WAY-SMA Arrigo, K. (PI)
OSPAUSTL	20	Coastal Resource Management	not given this year	3	Letter (ABCD/NP)	GER:DB-EngrAppSci
OSPAUSTL	25	Freshwater Systems	Aut	3	Letter (ABCD/NP)	GER:DB-EngrAppSci
OSPAUSTL	30	Coastal Forest Ecosystems	Aut	3	Letter (ABCD/NP)	GER:DB-EngrAppSci

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OSPAUSTL	40	Australian Studies	Aut	3	Letter (ABCD/NP)	GER:DB-SocSci, GER:EC- GlobalCom, WAY- ED, WAY-SI
OSPBEIJ	35	Toward a Sustainable Future: China's Environmental Challenges	Spr	4	Letter (ABCD/NP)	
OSPBEIJ	80	Introduction to Renewable Energy - How Things Work	not given this year	4	Letter or Credit/No Credit	
OSPBER	16	Technology and Policy for Sustainable Energy in Germany	Aut	3	Letter (ABCD/NP)	Tatum, C. (PI)
OSPBER	62	Shades of Green: Environmental Policy in Germany and the U.S. in Historical Perspective	not given this year	5	Letter (ABCD/NP)	GER:DB-SocSci
OSPCPTWN	13	Biology and Ecology of the Lion King	not given this year	3	Letter or Credit/No Credit	
OSPCPTWN	25	Independent Study of South African Built Environment, Economy, and Institutions	not given this year	1-4	Letter or Credit/No Credit	
OSPCPTWN	45	Energy and Africa	not given this year	5	Letter or Credit/No Credit	GER:DB- EngrAppSci
OSPCPTWN	49	Water in South Africa: Human Right, Public Trust, or Market Commodity? [Independent Study]	not given this year	4	Letter (ABCD/NP)	GER:DB-SocSci, WAY-SI
OSPCPTWN	50	Conservation & Resources in Sub-Saharan Africa	not given this year	2-3	Letter (ABCD/NP)	
OSPCPTWN	53	The South African Environment in Historical Context	not given this year	5	Letter or Credit/No Credit	
OSPCPTWN	63	Socio-Ecological Systems	Sum	3	Letter (ABCD/NP)	
OSPFLO	33	Under the Tuscan Sun: A Model for Agriculture and Sustainability	not given this year	5	Letter (ABCD/NP)	
OSPFLO	37	Directed Readings in Environmental Management in Europe	not given this year	3-5	Satisfactory/No Credit	
OSPFLO	47	Independent Study in Geological and Environmental Sciences	not given this year	1-3	Letter or Credit/No Credit	
OSPFLO	52	Mass Extinctions and the Geology of Italy	not given this year	4	Letter or Credit/No Credit	GER: DB-NatSci, WAY-SMA
OSPFLO	57	Global Change and Italian Ecosystems: Management and Conservation for Mitigation	not given this year	4	Letter (ABCD/NP)	GER: DB-NatSci, WAY-SMA
OSPFLO	64	The Future of Mediterranean Marine Ecosystem: Human Impacts and Conservation	not given this year	3	Letter or Credit/No Credit	GER: DB-NatSci
OSPFLO	65	Historical Ecology of the Mediterranean Sea	not given this year	2	Letter or Credit/No Credit	
OSPFLO	74	Ethics and Politics of Climate Change	not given this year	5	Letter (ABCD/NP)	GER:EC- EthicReas, WAY- ER
OSPGEN	37	Brazil Technology and Engineering	Sum	2	Satisfactory/No Credit	Pruitt, B. (PI)
OSPGEN	38	China Technology and Engineering	not given this year	2	Satisfactory/No Credit	
OSPGEN	39	India Technology and Engineering	Sum	2	Satisfactory/No Credit	Kahn, J. (PI)
OSPGEN	42	How to Build a Habitable Planet: An Example from the European Alps	not given this year	2	Letter (ABCD/NP)	

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OSPGEN	43	Turkey at the Crossroads of Energy, Sustainability, and Geography	not given this year	2	Satisfactory/No Credit		
OSPGEN	49	Conservation Photography	Sum	2	Satisfactory/No Credit	WAY-CE	McConnell, S. (PI)
OSPGEN	52	Biological and Cultural Aspects of Island Geography: Madagascar	not given this year	2	Satisfactory/No Credit		
OSPGEN	53	Corals of Palau: Ecology, the Physical Environment, and Reefs at Risk	Sum	2	Letter (ABCD/NP)		Dunbar, R. (PI)
OSPGEN	55	Island Biogeography and History of Tasmania	Sum	2	Satisfactory/No Credit		Siegel, R. (PI)
OSPGEN	56	Food, Water and War: Life in the Mekong	Sum	2	Letter (ABCD/NP)		Fendorf, S. (PI); Reicherter, D. (PI)
OSPGEN	60	Wetlands Ecology and Conservation: the Pantanal - A Case Study	not given this year	2	Satisfactory/No Credit		
OSPGEN	70	Indigenous Australia	not given this year	2	Letter (ABCD/NP)		
OSPGEN	74	The Evolution of Darwin	not given this year	2	Satisfactory/No Credit		
OSPGEN	75	Evolution of Life in Neotropical Forests of Ecuador	not given this year	2	Satisfactory/No Credit		
OSPGEN	84	Natural History and Behavioral and Evolutionary Ecology	not given this year	2	Satisfactory/No Credit		
OSPKYOTO	20	Economic Consequence of Disasters: Natural and Man-Made	not given this year	4-5	Letter (ABCD/NP)		
OSPKYOTO	35	Environmental Policy Design and Implementation in Japan, China, and the U.S.	not given this year	3	Letter or Credit/No Credit	GER:DB-EngrAppSci	
OSPKYOTO	45	Japan's Energy-Environment Conundrum	Win	4	Letter (ABCD/NP)		Hugh, M. (PI)
OSPKYOTO	56	Technology, Ecology, and the Imagination of the future	not given this year	5	Letter or Credit/No Credit	GER:DB-SocSci	
OSPMADRD	8A	Architecture, Culture and Nature in Madrid: Towards a Sustainable City	Aut	2	Letter (ABCD/NP)		Perez-Leal, P. (GP)
OSPMADRD	18	Ecology of Spain	not given this year	3	Letter (ABCD/NP)	GER: DB-NatSci	
OSPMADRD	20	Sustainability of the Natural, Built and Social Environments of Spain	not given this year	2	Letter or Credit/No Credit		
OSPMADRD	21	Built Environmental History of Spain	not given this year	3	Letter or Credit/No Credit	GER:DB-EngrAppSci	
OSPMADRD	56	Environmental Politics: Theory, Political Praxis, and the Spanish Case	not given this year	5	Letter (ABCD/NP)	GER:DB-SocSci	
OSPOXFRD	88	Evolution of Darwin	not given this year	3	Letter or Credit/No Credit		
OSPPARIS	10D	Climate Change Research Internship	Win, Spr	6	Letter (ABCD/NP)		
OSPPARIS	10G	Oceanography Research Internship	Aut, Win, Spr	6	Letter or Credit/No Credit		
OSPPARIS	33	The Economics of Climate Change: Policies in Theory and Practice in the EU and the U.S.	not given this year	5	Letter (ABCD/NP)	GER:DB-SocSci, GER:EC-GlobalCom	
OSPPARIS	74	Climate Change Challenges in France and Europe: from Project to Policy	not given this year	4	Letter (ABCD/NP)	GER:DB-EngrAppSci	
OSPPARIS	86	Measuring Well-Being and Sustainability in Today's World	Win	5	Letter (ABCD/NP)	WAY-SI	Laurent, E. (PI)

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OSPSANTG	27	Humans and the Environment: The Great Transitions Sustainable Cities:	not given this year	3-5	Letter (ABCD/NP)	GER: DB-NatSci
OSPSANTG	29	Comparative Transportation Systems in Latin America	Spr	4-5	Letter (ABCD/NP)	
OSPSANTG	31	The Chilean Energy System: 30 Years of Market Reforms	Sum	4-5	Letter (ABCD/NP)	Munoz, C. (PI)
OSPSANTG	36	Darwin's South America	not given this year	3	Letter or Credit/No Credit	
OSPSANTG	55	Environment, Economy and Society in Latin America, 1800's-Present	not given this year	3-5	Letter or Credit/No Credit	GER:DB-SocSci
OSPSANTG	58	Living Chile: A Land of Extremes	Aut, Spr, Sum	5	Letter (ABCD/NP)	GER:DB-EngrAppSci
OSPSANTG	71	Santiago: Urban Planning, Public Policy, and the Built Environment	Aut	4-5	Letter (ABCD/NP)	
OSPSANTG	76	Ecology and Biodiversity of Latin America	not given this year	4	Letter or Credit/No Credit	
OSPSANTG	77	Independent Studies in Biodiversity in Latin America	not given this year	3	Letter or Credit/No Credit	
OSPSANTG	78	Chile and South America's Response to Climate Change	not given this year	5	Letter or Credit/No Credit	GER:DB-SocSci
OSPSANTG	85	Marine Ecology of Chile and the South Pacific	Spr	5	Letter (ABCD/NP)	GER: DB-NatSci
OSPSANTG	198A	Climate Change Policy and Negotiations	not given this year	3-5	Letter or Credit/No Credit	
OSPSANTG	198B	Independent Project in Salmon Farming Data Analysis	not given this year	2-4	Letter or Credit/No Credit	
OUTDOOR	101	Introduction to Outdoor Education	Aut, Win, Spr	1	Satisfactory/No Credit	Pelchat, C. (PI)
OUTDOOR	105	Outdoor Living Skills	Aut, Win, Spr	1-2	Satisfactory/No Credit	Wright, P. (PI)
OUTDOOR	106	Outdoor Leadership Practicum	Aut, Win, Spr	1-2	Satisfactory/No Credit	Thompson, A. (PI)
OUTDOOR	401	Outdoor Living Skills	not given this year	1	Satisfactory/No Credit	
OUTDOOR	405	Outdoor Living and Leadership	not given this year	1-2	Satisfactory/No Credit	
OUTDOOR	406A	Outdoor Leadership Practicum- Backpacking	not given this year	1	Satisfactory/No Credit	
OUTDOOR	406B	Outdoor Leader Practicum - Winter Travel	not given this year	1	Satisfactory/No Credit	
OUTDOOR	406C	Outdoor Leader Practicum - Rock Climbing	not given this year	1	Satisfactory/No Credit	
OUTDOOR	406D	Outdoor Leader Practicum - Whitewater	not given this year	1	Satisfactory/No Credit	
OUTDOOR	415	Adventure Experience Management	not given this year	1	Satisfactory/No Credit	
OUTDOOR	416	Outdoor Educator Apprenticeship	Aut, Win, Spr	1-2	Satisfactory/No Credit	Pelchat, C. (PI)
OUTDOOR	495	Outdoor Education: Assistant Instructor	Aut, Win, Spr	1-2	Satisfactory/No Credit	Thompson, A. (PI)
PEDS	150	Social and Environmental Determinants of Health (PEDS 250)	Win	3	Medical Satisfactory/No Credit	
PEDS	250	Social and Environmental Determinants of Health (PEDS 150)	Win	3	Medical Satisfactory/No Credit	
PHIL	23M	Justice and Climate Change	not given this year	2	Satisfactory/No Credit	
PHIL	25SI	The Animal-Human Relationship: Interdisciplinary Perspectives		1	Satisfactory/No Credit	
PHIL	64S	Introduction to Environmental Philosophy	not given this year	3	Letter or Credit/No Credit	

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PHIL	72	Contemporary Moral Problems (ETHICSOC 185M, POLISCI 134P)	Win	4-5	Letter (ABCD/NP)	GER:EC-EthicReas, WAY-ER	Naaman, O. (PI)
PHIL	73	Collective Action Problems: Ethics, Politics, & Culture (ETHICSOC 180M, POLISCI 131A, PUBLPOL 304A)	Spr	3-4	Letter or Credit/No Credit	GER:EC-EthicReas, WAY-ER	
PHIL	76	Introduction to Global Justice (ETHICSOC 136R, INTNLREL 136R, POLISCI 136R, POLISCI 336)	Spr	4	Letter or Credit/No Credit	GER:DB-Hum, GER:EC-EthicReas, WAY-ER	
PHIL	164	Central Topics in the Philosophy of Science: Theory and Evidence (PHIL 264)	Spr	4	Letter or Credit/No Credit	GER:DB-Hum, WAY-A-II	Ryckman, T. (PI)
PHIL	167B	Philosophy, Biology, and Behavior (PHIL 267B)	not given this year	4	Letter or Credit/No Credit	GER:DB-Hum, WAY-A-II	
PHIL	174A	Moral Limits of the Market (ETHICSOC 174A, PHIL 274A, POLISCI 135P)	not given this year	4	Letter or Credit/No Credit	GER:DB-Hum, GER:EC-EthicReas, WAY-A-II, WAY-ER	
PHIL	175A	Ethics and Politics of Public Service (CSRE 178, ETHICSOC 133, HUMBIO 178, PHIL 275A, POLISCI 133, PUBLPOL 103D, URBANST 122)	Spr	5	Letter or Credit/No Credit	GER:DB-SocSci, WAY-ED, WAY-ER	Schnaubelt, T. (PI); Terra, L. (PI)
PHIL	177C	Ethics of Climate Change (PHIL 277C)	Win	4	Letter or Credit/No Credit		Broome, J. (PI)
PHIL	178A	The Ethics of Environmental Choices	not given this year	4	Letter or Credit/No Credit	GER:DB-Hum	
PHIL	178M	Introduction to Environmental Ethics (ETHICSOC 178M, ETHICSOC 278M, PHIL 278M, POLISCI 134L)	not given this year	4-5	Letter (ABCD/NP)	GER:EC-EthicReas, WAY-ER	
PHIL	264	Central Topics in the Philosophy of Science: Theory and Evidence (PHIL 164)	Spr	4	Letter or Credit/No Credit		Ryckman, T. (PI)
PHIL	267B	Philosophy, Biology, and Behavior (PHIL 167B)	not given this year	4	Letter or Credit/No Credit		
PHIL	274A	Moral Limits of the Market (ETHICSOC 174A, PHIL 174A, POLISCI 135P)	not given this year	4	Letter or Credit/No Credit		
PHIL	275A	Ethics and Politics of Public Service (CSRE 178, ETHICSOC 133, HUMBIO 178, PHIL 175A, POLISCI 133, PUBLPOL 103D, URBANST 122)	Spr	5	Letter or Credit/No Credit		Schnaubelt, T. (PI); Terra, L. (PI)
PHIL	277C	Ethics of Climate Change (PHIL 177C)	Win	4	Letter or Credit/No Credit		Broome, J. (PI)
PHIL	278A	The Ethics of Environmental Choices	not given this year	4	Letter or Credit/No Credit		
PHIL	278M	Introduction to Environmental Ethics (ETHICSOC 178M, ETHICSOC 278M, PHIL 178M, POLISCI 134L)	not given this year	4-5	Letter (ABCD/NP)		
PHYSICS	240	Introduction to the Physics of Energy	Aut	3	Letter or Credit/No Credit		Laughlin, R. (PI)
PHYSICS	241	Introduction to Nuclear Energy	Win	3	Letter or Credit/No Credit		Laughlin, R. (PI)
POLECON	230	Strategy Beyond Markets		2	GSB Letter Graded		Broockman, D. (PI); Foarta, D. (PI)
POLECON	231	Strategy Beyond Markets: Challenges and Opportunities in Developing Economies		3	GSB Letter Graded		Casey, K. (PI)

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POLISCI	1Z	Introduction to International Relations	not given this year	5	Letter or Credit/No Credit	GER:DB-SocSci, WAY-SI
POLISCI	12N	Climate Change and Conflict: Will Warming Lead to Warring?	not given this year	3	Letter (ABCD/NP)	
POLISCI	17SC	What's the Matter with California?	not given this year	2	Letter (ABCD/NP)	
POLISCI	18SC	The Federal Government and the West	not given this year	2	Letter (ABCD/NP)	
POLISCI	19N	Politics of Energy Efficiency	not given this year	5	Letter or Credit/No Credit	WAY-SI
POLISCI	19SC	Food and Politics	not given this year	2	Letter or Credit/No Credit	
POLISCI	21SC	Land and Water Policies in the West	not given this year	2	Satisfactory/No Credit	
POLISCI	23SC	Energy in the West	not given this year	2	Satisfactory/No Credit	
POLISCI	25SC	Energy in the Southwest (CEE 16SC, ENERGY 11SC)	Sum	2	Satisfactory/No Credit	Benson, S. (PI); Cain, B. (PI); Freyberg, D. (PI)
POLISCI	35Q	Food and Politics	not given this year	2	Letter (ABCD/NP)	
POLISCI	43N	Oil, Regime Change, and Conflict	not given this year	3	Letter or Credit/No Credit	GER:DB-SocSci
POLISCI	47	Oil: A Research Seminar	not given this year	3-5	Letter or Credit/No Credit	
POLISCI	73	Energy Policy in California	Spr	1	Letter (ABCD/NP)	
POLISCI	124A	The American West (AMSTUD 124A, ARTHIST 152, ENGLISH 124, HISTORY 151)	Spr	5	Letter (ABCD/NP)	GER:DB-Hum, Cain, B. (PI); GER:EC- Fishkin, S. (PI); AmerCul, WAY-A- Freyberg, D. (PI); II, WAY-SI Kennedy, D. (PI)
POLISCI	131A	Collective Action Problems: Ethics, Politics, & Culture (ETHICSOC 180M, PHIL 73, PUBLPOL 304A)	Spr	3-4	Letter or Credit/No Credit	GER:EC- EthicReas, WAY-ER
POLISCI	133	Ethics and Politics of Public Service (CSRE 178, ETHICSOC 133, HUMBIO 178, PHIL 175A, PHIL 275A, PUBLPOL 103D, URBANST 122)	Spr	5	Letter or Credit/No Credit	GER:DB-SocSci, WAY-ED, WAY-ER Schnaubelt, T. (PI); Terra, L. (PI)
POLISCI	134L	Introduction to Environmental Ethics (ETHICSOC 178M, ETHICSOC 278M, PHIL 178M, PHIL 278M)	not given this year	4-5	Letter (ABCD/NP)	GER:EC- EthicReas, WAY-ER
POLISCI	136R	Introduction to Global Justice (ETHICSOC 136R, INTNLREL 136R, PHIL 76, POLISCI 336)	Spr	4	Letter or Credit/No Credit	GER:DB-Hum, GER:EC- EthicReas, WAY-ER
POLISCI	143	Nongovernmental Organizations and Development in Poor Countries	not given this year	5	Letter (ABCD/NP)	GER:DB-SocSci
POLISCI	241S	Spatial Approaches to Social Science (ANTHRO 130D, ANTHRO 230D, URBANST 124)	Aut	5	Letter or Credit/No Credit	WAY-AQR, WAY-SI Engel, C. (PI); Rodden, J. (PI)
PSYCH	459	Frontiers in Interdisciplinary Biosciences (BIO 459, BIOC 459, BIOE 459, CHEM 459, CHEMENG 459)	Aut, Win, Spr	1	Medical Satisfactory/No Credit	Robertson, C. (PI)
PUBLPOL	101	Politics and Public Policy (AMSTUD 123X, POLISCI 102, POLISCI 123, PUBLPOL 201)	Win	4-5	Letter or Credit/No Credit	GER:DB-SocSci, WAY-SI Brady, D. (PI); Cain, B. (PI)

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PUBLPOL	103D	Ethics and Politics of Public Service (CSRE 178, ETHICSOC 133, HUMBIO 178, PHIL 175A, PHIL 275A, POLISCI 133, URBANST 122)	Spr	5	Letter or Credit/No Credit	GER:DB-SocSci, WAY-ED, WAY-ER	Schnaubelt, T. (PI); Terra, L. (PI)
PUBLPOL	104	Economic Policy Analysis (ECON 150, PUBLPOL 204)	Win	4-5	Letter or Credit/No Credit	WAY-AQR	Rosston, G. (PI)
PUBLPOL	121	Policy and Climate Change	not given this year	4-5	Letter or Credit/No Credit		
PUBLPOL	125	Law and Public Policy	Spr	5	Letter or Credit/No Credit	GER:DB-SocSci	Greenberg, J. (PI)
PUBLPOL	194	Technology Policy (PUBLPOL 294)	not given this year	3-4	Letter or Credit/No Credit		
PUBLPOL	294	Technology Policy (PUBLPOL 194)	not given this year	3-4	Letter or Credit/No Credit		
PWR	1CR	Writing & Rhetoric 1: Writing Nature: Discourses in Ecology, Culture, and Technology	not given this year	4	Letter (ABCD/NP)	Writing 1	
PWR	1CS	Writing & Rhetoric 1: Debating the Environment	not given this year	4	Letter (ABCD/NP)	Writing 1	
PWR	1MG	Writing & Rhetoric 1: The Rhetoric of the American West	not given this year	4	Letter (ABCD/NP)	Writing 1	
PWR	1MS	Writing & Rhetoric 1: Seeing Nature: The Power of Environmental Visual Rhetoric	Spr	4	Letter (ABCD/NP)	Writing 1	Stroud, M. (PI)
PWR	1SI	Writing & Rhetoric 1: Super-Storms, Polar Bears, and Droughts: The Rhetoric of Climate Change	Win, Spr	4	Letter (ABCD/NP)	Writing 1	Ives, S. (PI)
PWR	1VS	Writing & Rhetoric 1: Eating-Animals: The Rhetoric of Animals, Food, and the Environment	not given this year	4	Letter (ABCD/NP)	Writing 1	
PWR	2CR	Writing & Rhetoric 2: Communicating Science	Aut, Win, Spr	4	Letter (ABCD/NP)	Writing 2	Ross, C. (PI)
PWR	2JS	Writing & Rhetoric 2: In Science We Trust	Aut	4	Letter (ABCD/NP)	Writing 2	Stonaker, J. (PI)
PWR	2KM	Writing & Rhetoric 2: A Planet on the Edge: The Rhetoric of Sustainable Energy	Aut, Win, Spr	4	Letter (ABCD/NP)	Writing 2	Moekle, K. (PI)
PWR	2RL	Writing & Rhetoric 2: The Rhetoric of the Natural and Beyond	Aut, Spr	4	Letter (ABCD/NP)	Writing 2	Lee, R. (PI)
PWR	2SB	Writing & Rhetoric 2: Writing 'Science': Fact, Fiction, and Everything Between	not given this year	4	Letter (ABCD/NP)	Writing 2	
PWR	1KMB	Writing & Rhetoric 1: Cradle to Cradle: the Rhetoric of Sustainability	not given this year	4	Letter (ABCD/NP)	Writing 1	
PWR	91CL	Intermediate Writing: Creative Inquiry: New Genres for Science Writing	Spr	3	Letter (ABCD/NP)	WAY-CE	Lewis, C. (PI)
PWR	91EP	Intermediate Writing: Communicating Climate Change: Navigating the Stories from the Frontlines	Spr	4	Letter (ABCD/NP)		
PWR	91JS	Intermediate Writing: Stanford Science Podcast	not given this year	3	Letter (ABCD/NP)		
PWR	91KS	Intermediate Writing: Design Thinking and Science Communication	Aut	4	Letter (ABCD/NP)	WAY-CE	Savelson, K. (PI)
PWR	91RS	Intermediate Writing: Communicating Bioinformation	not given this year	3	Letter (ABCD/NP)		

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PWR	91S	Intermediate Writing: Communicating Science	not given this year	3	Letter (ABCD/NP)	
PWR	91NSC	Intermediate Writing: Introduction to Science Communication	Win, Spr	4	Letter (ABCD/NP)	Stonaker, J. (PI)
RELIGST	106	Religion and the Environment: The Moral Meanings of Nature	not given this year	3	Letter or Credit/No Credit	GER:DB-Hum, WAY-A-II, WAY- ER
RELIGST	206	Nature and Culture in Early Chinese Thought	not given this year	4	Letter or Credit/No Credit	GER:DB-Hum, GER:EC- GlobalCom
SIW	115	Health and Environmental Regulatory Policy	not given this year	5	Letter (ABCD/NP)	
SIW	116	International Environmental Policy	Win	5	Letter or Credit/No Credit	
SIW	121	Economic Analysis of Federal Environmental and Health Regulations	not given this year	5	Letter or Credit/No Credit	
SIW	122	Energy, Environment and Security in South Asia	not given this year	5	Letter or Credit/No Credit	
SIW	125	Climate Change	not given this year	5	Letter or Credit/No Credit	
SIW	128	Transitions in Energy Policy Speakers Series	not given this year	2	Satisfactory/No Credit	
SIW	132	Bridging the gap between environmental science and policy	not given this year	5	Letter or Credit/No Credit	
SIW	133	How a "Green" Idea Becomes Law: Current State of US Environmental Law & Policy	not given this year	5	Letter or Credit/No Credit	
SIW	137	Energy and Environment: Technology, Economics and Policy	given next year	5	Letter or Credit/No Credit	
SIW	140	Health and Environmental Policy Speaker Series	not given this year	2	Satisfactory/No Credit	
SIW	144	Energy, Environment, Climate and Conservation Policy: A Washington, D.C. Perspective	Win	5	Letter or Credit/No Credit	Anderson, K. (PI)
SIW	153	Energy and Climate Cooperation in the Western Hemisphere	not given this year	5	Letter or Credit/No Credit	
SIW	198J	Environment and Energy Policy		5	Letter (ABCD/NP)	
SIW	198K	Urban Environmental Issues		5	Letter or Credit/No Credit	
SIW	198S	Environment and Energy Policy		5	Letter (ABCD/NP)	
SIW	198W	Environmental Education		5	Letter (ABCD/NP)	
SIW	198X	International Environmental Policy		5	Letter (ABCD/NP)	
SOC	16N	African Americans and Social Movements (AFRICAAM 16N, CSRE 16N)	not given this year	3	Letter or Credit/No Credit	GER:DB-SocSci
SOC	118	Social Movements and Collective Action (SOC 218)	Aut	4	Letter or Credit/No Credit	GER:DB-SocSci Benditt, L. (PI)
SOC	159	Social and Cultural Dimensions of GlobalIndigeneity (SOC 259)	not given this year	4	Letter (ABCD/NP)	
SOC	160	Formal Organizations (SOC 260)	not given next year	4	Letter (ABCD/NP)	GER:DB-SocSci, WAY-SI
SOC	218	Social Movements and Collective Action (SOC 118)	Aut	4	Letter or Credit/No Credit	Benditt, L. (PI)
SOC	260	Formal Organizations (SOC 160)	not given next year	4	Letter (ABCD/NP)	

Environmental Courses 2015-2016

							DiCiccio, C. (PI); Sun, D. (PI); Taylor, J. (PI); Thomas, E. (PI); Walthers, G. (PI); Xia, L. (PI)
STATS	60	Introduction to Statistical Methods: Precalculus (PSYCH 10, STATS 160)	Aut, Win, Spr, Sum	5	Letter or Credit/No Credit	GER:DB-Math, WAY-AQR, WAY-FR	
STATS	110	Statistical Methods in Engineering and the Physical Sciences	Aut, Sum	4-5	Letter or Credit/No Credit	GER:DB-Math, WAY-AQR, WAY-FR	He, H. (PI); Rajaratnam, B. (PI)
STATS	141	Biostatistics (BIO 141)	Aut	3-5	Letter or Credit/No Credit	GER:DB-Math, WAY-AQR	Mukherjee, R. (PI)
STATS	160	Introduction to Statistical Methods: Precalculus (PSYCH 10, STATS 60)	Aut, Win, Spr, Sum	5	Letter or Credit/No Credit		DiCiccio, C. (PI); Sun, D. (PI); Taylor, J. (PI); Thomas, E. (PI); Walthers, G. (PI); Xia, L. (PI)
STRAMGT	341	Achieving Social Impact		4	GSB Letter Graded		
STS	131	Science Technology & Environmental Justice	Sum	4	Letter (ABCD/NP)	GER:EC-AmerCul, WAY-SI	Holzmeyer, C. (PI)
STS	140	Science, Technology and Politics	not given this year	5	Letter (ABCD/NP)	WAY-SI	
STS	190	Issues in Technology and the Environment	Spr	4	Letter (ABCD/NP)	WAY-SI	Sato, K. (PI)
STS	200A	Food and Society: Politics, Culture and Technology	Aut	5	Letter (ABCD/NP)	WAY-ED, WAY-SI	Sato, K. (PI); Pope, S. (TA)
STS	200E	Technology, Nature, and Environmentalism	not given this year	5	Letter (ABCD/NP)	WAY-A-II, WAY-SI	
STS	210	Ethics, Science, and Technology	not given this year	4	Letter (ABCD/NP)	GER:DB-Hum	
SURG	231	Healthcare in Haiti and other Resource Poor Countries	Spr	1	Medical Option (Med-Ltr-CR/NC)		
THINK	8	Sustainability and Collapse	not given this year	4	Letter (ABCD/NP)	THINK, WAY-A-II	
THINK	25	Evolution on Earth	not given this year	4	Letter (ABCD/NP)	THINK, WAY-SMA	
THINK	29	Networks: Ecological, Revolutionary, Digital	not given this year	4	Letter (ABCD/NP)	THINK, WAY-SI	
THINK	33	The Water Course	not given this year	4	Letter (ABCD/NP)	THINK, WAY-AQR, WAY-SMA	
THINK	39	Energy? Understanding the Challenge, Developing Solutions	not given this year	4	Letter (ABCD/NP)	THINK, WAY-AQR	
THINK	40	Meeting the Global Sustainability Challenge	Win	4	Letter (ABCD/NP)	THINK, WAY-SMA	Gerritsen, M. (PI); Matson, P. (PI)
URBANST	110	Utopia and Reality: Introduction to Urban Studies	Aut, Spr	4	Letter (ABCD/NP)	GER:DB-SocSci, GER:EC-AmerCul, WAY-SI	Stout, F. (PI)
URBANST	113	Introduction to Urban Design: Contemporary Urban Design in Theory and Practice	Win	5	Letter (ABCD/NP)	GER:DB-SocSci, WAY-CE, WAY-SI	Glanz, D. (PI)
URBANST	114	Urban Culture in Global Perspective (ANTHRO 126)	Aut	5	Letter (ABCD/NP)	GER:DB-SocSci, WAY-ED, WAY-SI	Hansen, T. (PI)
URBANST	122	Ethics and Politics of Public Service (CSRE 178, ETHICSOC 133, HUMBIO 178, PHIL 175A, PHIL 275A, POLISCI 133, PUBLPOL 103D)	Spr	5	Letter or Credit/No Credit	GER:DB-SocSci, WAY-ED, WAY-ER	Schnaubelt, T. (PI); Terra, L. (PI)

Environmental Courses 2015-2016

URBANST	124	Spatial Approaches to Social Science (ANTHRO 130D, ANTHRO 230D, POLISCI 241S)	Aut	5	Letter or Credit/No Credit	WAY-AQR, WAY-SI	Engel, C. (PI); Rodden, J. (PI)
URBANST	160	Environmental Policy and the City in U.S. History	not given this year	5	Letter (ABCD/NP)		
URBANST	163	Land Use Control	not given this year	4	Letter or Credit/No Credit	GER:DB-SocSci	
URBANST	164	Sustainable Cities (EARTHSYS 160)	Win	4-5	Letter or Credit/No Credit	WAY-ED, WAY-SI	Chan, D. (PI)
URBANST	165	Sustainable Urban and Regional Transportation Planning	Aut	4-5	Letter (ABCD/NP)	GER:DB-SocSci, WAY-SI	Kott, J. (PI)
URBANST	167	Green Mobilities for the Suburbs of the Future	Win	3	Letter or Credit/No Credit		Stout, F. (PI)
URBANST	174	Defining Smart Cities: Visions of Urbanism for the 21st Century (CEE 125, CEE 225)	Aut	1	Satisfactory/No Credit		Chan, D. (PI); Hsu, K. (PI); Law, K. (PI)