

HSU Examples of Sustainability designated courses and research:

COURSES

(Courses taken from the 2015- 2016 catalog, as reported in the 2017 STARS Report)

A sampling of undergraduate-level sustainability-focused courses:

1. ECON 309 Economics of a Sustainable Society: Interpret meaning of sustainable economy. Techniques for measuring economic performance using sustainability standard. Analyze domestic and international policies consistent with a sustainable economy.
2. ENGR 114 Whole Earth Engineering: Apply engineering and science concepts and methods to self-sufficient habitat systems: housing, energy, water and food supply.
3. ENST 295 Power/Privilege & Environment: Explores the environment as a central element in the reproduction of patterns of power and privilege along lines of race, class, and gender. Examines how environmental conflicts challenge those patterns.
4. HIST 326 History of Mexico: Surveys Mexican history from pre-Columbian indigenous societies to present-day EZLN uprising in Chiapas. Focus placed upon political, economic, environmental history, and foreign relations with the United States.
5. NAS 332 Environmental Justice: Issues/concerns that led to Executive Order 12898 (environmental policies and conflicts between industries and those seeking environmental protection, including Alaska Native villages, lower 48 tribes, grassroots community organizations).
6. PSCI 373 Politics of Sustainability: Examine diverse views of concepts such as democracy, liberty, justice, and nature as a response to political challenges of sustainability and unsustainability. Role of states, technology, markets, and culture.
7. SOC 370 Environmental Inequality & Globalization: Examines environmental justice and environmental inequality on a global level and their implications for communities and nation states.

A sampling of graduate-level sustainability-focused courses:

1. ECON 550 Economics of Energy & Climate Policy: Economics of energy markets and regulatory institutions. Climate-change policies and impacts. Economic tools for reducing green-house-gas emissions. Economic analysis of energy efficiency and renewable energy projects.
2. MBA 620 Triple Bottom Line Accounting: Accounting systems used to promote strategic sustainability. Information used in organizations for profit planning, operational control, performance evaluation, employee continuous improvement, improving relationships with the community, and protecting the environment.
3. WS 680: Environment & Community- Gender, Race, Class: Intensive study of socio-cultural dimension of environmental issues, focusing on intersections of race, class, gender, and environment.

A sampling of undergraduate-level sustainability-related courses:

1. CD 255 Early Childhood Development: Development from toddlerhood through age 7 in a family and school context. Impact of diverse family experiences. Biological and environmental

influences that determine normative and individual development. Interpret theories and research. Observations required.

2. CRGS 430 Queer Across Cultures: Explores diversity of categories and meanings of sexuality, sex, and gender across cultures. Analyzes transformation due to colonialism, nationalism, and economic and cultural globalization. Explores intersections with race, class, nation.
3. BIOL 434 Population & Community Ecology: The study of the structure and distribution of populations and communities. Topics include population viability modeling, metapopulation dynamics, mark-recapture techniques, species interactions, trophic dynamics, assembly rules, biodiversity, and conservation issues.
4. ES 106 Introduction to Black Studies: Course examines literature, music, dance, and film produced by people of African descent in the US. Studies race, class, and gender to assess similarities and differences in the Black experience.
5. REC Geotourism: This course examines tourism that sustains or enhances the geographical character of a place; the environment, culture, heritage, aesthetics, and the well being of the residence.
6. WLDF 497 Wildlife Ethics, Independence Study: Case studies. Integrate biological, ethical, and legal perspectives.

A sampling of graduate-level sustainability-related courses:

1. EC 620 Economic-Political Dimensions: Provides analytical frameworks for understanding the role of political and economic institutions, discourses, organizations, and movements. Variable topics.
2. ENGL 570 Topics in the Literature of Power & Place: Study writers, theories and representations of place in relation to issues of power with regard to class, ethnicity, gender, and/or sexuality.
3. FISH 576 Ecology of Running Waters: Characterization of the physical and chemical environment, adaptations, distribution, and interactions of riverine biota, ecosystem structure and dynamics, and response to human alteration.
4. SOC 535 Dispute Resolution: Theoretical/philosophical issues. Mediation process, strategies, and techniques, particularly for public policy and environmental mediation. Design a dispute resolution process to address a particular conflict.

RESEARCH

A sampling of sustainability-focused research:

- (Faculty, info from Sponsored Programs 2017) Han Han Sup, funded by US Dept of Energy: This project is to utilize waste forest residues for the production of bioenergy and biobased products as a strategy to: 1) reduce US dependence on imported energy, 2) improve the environment, and 3) promote economic development in rural, forest-dependent communities in the western US. Read more at <http://now.humboldt.edu/news/hsu-receives-58-million-federal-grant-for-innovative-biomass-research1/>
- (Faculty, info from Sponsored Programs 2017) Laurie Richmond, Funded by NOAA: The goal of this project is to conduct socioeconomic data collection, data analysis, and collaborative planning activities to develop Fishing Community Sustainability Plans for Eureka and Shelter

Cove. Read more at <http://now.humboldt.edu/news/road-map-to-help-northern-california-fishing-communities-thrive/>

- (Faculty, info from Sponsored Programs 2017) Tim Mulligan, funded by UC San Diego: Project studies the ecological state of Northern CA's Sandy Beaches and Surf Zones and creates a baseline characterization for MPA assessment and MPA monitoring of sandy shores along the Northern CA Coast. Read more about this and similar research at <http://magazine.humboldt.edu/spring15/surveying-the-sea/>
- (Graduate Student 2018, info from E&C Program) Marisa Formosa, thesis title: **Learning from a Restoration Innovator: Building Community Capitals and Resilience Through the Restoration Economy**
- (Graduate Student 2017, info from E&C Program) Jodie Pixley: **All-Lands Management: Convening Communities and Their Lands Around Fire Management**
- Graduate Student 2015, info from EC&C Program) Wendy Willis: **The Political Ecology of Shade Coffee: Perspectives from Jamaican Blue Mountain Farmers**
- (Undergraduate students 2018, info from Ideafest) Jessica Solomon, Amanda Donaldson, and Christina Herring: Measuring a Nations Fragility in Relation to Climate Change. Read abstract at <https://www2.humboldt.edu/ideafest/presenter-search>
- (Undergraduate student 2018, info from Ideafest) Amy Lautamo: Rural Food Insecurity in Humboldt County. Read abstract at <https://www2.humboldt.edu/ideafest/presenter-search>

A sampling of sustainability-related research:

- (Faculty, info from Sponsored Programs 2017) Barbara Clucas, funded by US Fish & Wildlife Service: This project will address human dimensions of western snowy plover conservation and management through human surveys on their attitudes and actions.
- (Faculty, info from Sponsored Programs 2017) Lowell Diller, funded by Save the Redwood League: Determine the impacts of historical logging on headwater amphibians and assess the potential for restoration in Redwood National and State Parks.
- (Faculty, info from Sponsored Programs 2017) Matthew Johnson, funded by National Science Foundation: This project seeks to develop undergraduates, especially American Indian students, into ecological and environmental scientists.
- (Graduate Student 2018, info from E&C Program) Yojana Miraya Oscoco: **Adaptation of Customary Quechua Indigenous Political Organization in the Face of Modern Resource Extraction: A Case Study in the Apurimac Region of the Andes of Peru**
- (Graduate Student 2017, info from E&C Program) Natalie Cardoso: **Voices Erased from the Environmental Discourse: Understanding Campesin@s Realities and Identities Through Narratives and Forms of Resistances**
- (Graduate Student 2015, info from EC&C Program) Joanna Di Tommaso: **"If someone wants my carbon, let them pay": examining nonindustrial private forest owner (NIPF) interest in selling forest carbon credits under California's Carbon Market**
- (Graduate Student 2013, info from E&C Program) Jennifer Ann Maksim: **Birth Control, Borders, and the Bomb: An Intersectional Feminist Genealogy of Sierra Club Population Discourse**
- (Undergraduate student 2018, info from Ideafest) Molly Gillmore: Agency: Seeds of Our Next Generation. Read abstract at <https://www2.humboldt.edu/ideafest/presenter-search>

- (Undergraduate students 2018, info from Ideafest) Angelica Hernandez, Dillon Solliday, and Jackson Stillman: Switching to Electric Cars, and the Efficiency of Allocating Charging Stations. Read abstract at <https://www2.humboldt.edu/ideafest/presenter-search>
- (Undergraduate student 2018, info from Ideafest) Christi Dawn Nash: Unearh the Ruins of Animal Agriculture in the Amazon. Read abstract at <https://www2.humboldt.edu/ideafest/presenter-search>