ENVIRONMENTAL STUDIES (EVST)

* EVST 020a, Sustainable Development in Haiti   Gordon Geballe
   The principles and practice of sustainable development explored in the context of
   Haiti’s rich history and culture, as well as its current environmental and economic
   impoverishment. Enrollment limited to first-year students. Preregistration required; see
   under First-Year Seminar Program.  WR

* EVST 040a, Collections of the Peabody Museum   David Skelly
   Exploration of scientific questions through the study and analysis of objects within the
   Peabody Museum’s collections. Formulating a research question and carrying out a
   project that addresses it are the core activities of the course. Enrollment limited to first-
   year students. Preregistration required; see under First-Year Seminar Program.  SC

* EVST 060b, Topics in Environmental Justice     Michael Fotos
   This seminar introduces students to key concepts in environmental justice and to
   a selection of cases representing a wide range of environmental dilemmas. Course
   readings and discussions impart awareness of the diverse contexts in which problems
   of environmental justice might be studied, whether historical, geographic, racial, social,
   economic, political, biological, geophysical, or epistemic. Enrollment limited to first-
   year students. Preregistration required; see under First-Year Seminar Program.  WR,  SO

EVST 109a / HIST 109a, Climate & Environment in American History: From
   Columbian Exchange to Closing of the Frontier   Mark Peterson
   This lecture course explores the crucial role that climate and environmental conditions
   have played in American history from the period of European colonization to the
   end of the 19th century. Its focus is on the dramatic changes brought about by the
   encounters among Indigenous, European, and African peoples in this period, the
   influence of climate and climate change on these encounters, and the environmental
   transformations brought about by European colonization and conquest and the
   creation of new economies and polities (including chattel slavery). The lectures offer
   a new framework for organizing and periodizing North American history, based
   on geographical and environmental conditions rather than traditional national and
   political frameworks. The course provides a historical foundation for understanding
   contemporary American (and global) climate and environmental issues.  HU

EVST 127a / ER&M 127a / SOCY 127a / WGSS 127a, Health and Illness in Social
   Context     Staff
   Present-day medicine and health care provide solutions to an ever-increasing array of
   human problems. Yet the achievement of health can be elusive. This course provides a
   broad introduction to the domains of health and illness in the U.S., with some coverage
   of international trends and topics. Students analyze how our personal health and
   public health are shaped by social structures, political struggles, expert knowledge, and
   medical markets. Topics include the cultural and social meanings associated with health
   and illness; inequalities in health and health care access and provision; controversies
   surrounding healthcare, medical knowledge production, and medical decision-making;
   and the social institutions of the health care industry. None  SO  o Course cr
EVST 144a / EDST 144a / ER&M 211a / SOCY 144a, Race, Ethnicity, and Immigration
Staff
Exploration of sociological studies and theoretical and empirical analyses of race, ethnicity, and immigration, with focus on race relations and racial and ethnic differences in outcomes in contemporary U.S. society (post-1960s). Study of the patterns of educational and labor market outcomes, incarceration, and family formation of whites, blacks (African Americans), Hispanics, and Asian Americans in the United States, as well as immigration patterns and how they affect race and ethnic relations.
SO o Course cr

EVST 189b / HIST 246b, The History of Food  Paul Freedman
The history of food and culinary styles from prehistory to the present, with a particular focus on Europe and the United States. How societies gathered and prepared food. Changing taste preferences over time. The influence of consumers on trade, colonization, and cultural exchange. The impact of colonialism, technology, and globalization. The current food scene and its implications for health, the environment, and cultural shifts. HU o Course cr

EVST 219a / PHIL 290a, Philosophical Environmental Ethics  Staff
This is a philosophical introduction to environmental ethics. The course introduces students to the basic contours of the field and to a small number of special philosophical problems within the field. No philosophical background is required or expected. Readings are posted on Canvas and consist almost entirely of contemporary essays by philosophers and environmentalists. SO o Course cr

EVST 223a / E&EB 220a, General Ecology  Carla Staver
The theory and practice of ecology, including the ecology of individuals, population dynamics and regulation, community structure, ecosystem function, and ecological interactions at broad spatial and temporal scales. Topics such as climate change, fisheries management, and infectious diseases are placed in an ecological context. Prerequisite: MATH 112 or equivalent. SC o Course cr

* EVST 224a / ENGL 418a, Writing About The Environment  Alan Burdick
Exploration of ways in which the environment and the natural world can be channeled for literary expression. Reading and discussion of essays, reportage, and book-length works, by scientists and non-scientists alike. Students learn how to create narrative tension while also conveying complex—sometimes highly technical—information; the role of the first person in this type of writing; and where the human environment ends and the non-human one begins. Formerly ENGL 241. Admission by permission of the instructor only. Students interested in the course should email the instructor at alan.burdick@gmail.com with the following information: 1.) A few paragraphs describing your interest in taking the class. 2.) A non-academic writing sample that best represents you. WR

* EVST 234La, Field Science: Environment and Sustainability  Kealoha Freidenburg
A field course that explores the effects of human influences on the environment. Analysis of pattern and process in forested ecosystems; introduction to the principles of agroecology, including visits to local farms; evaluation of sustainability within an urban environment. Weekly field trips and one weekend field trip. SC
* EVST 244a, Coastal Environments in a Changing World  Mary Beth Decker
The effects of human action and natural phenomena on coastal marine ecosystems. Methods used by coastal scientists to address environmental issues; challenges associated with managing and conserving coastal environments. Priority to Environmental Studies majors; open to nonmajors as space permits.  SC

* EVST 247a / EP&E 497a / PLSC 219a, Politics of the Environment  Peter Swenson
Historical and contemporary politics aimed at regulating human behavior to limit damage to the environment. Goals, strategies, successes, and failures of movements, organizations, corporations, scientists, and politicians in conflicts over environmental policy. A major focus is on politics, public opinion, corporate interests, and litigation in the U.S. regarding climate change.  SO

* EVST 255b / F&ES 255b / GLBL 282b / PLSC 215b, Environmental Law and Politics  John Wargo
We explore relations among environmental quality, health, and law. We consider global-scale *avoidable* challenges such as: environmentally related human illness, climate instability, water depletion and contamination, food and agriculture, air pollution, energy, packaging, culinary globalization, and biodiversity loss. We evaluate the effectiveness of laws and regulations intended to reduce or prevent environmental and health damages. Additional laws considered include rights of secrecy, property, speech, worker protection, and freedom from discrimination. Comparisons among the US and EU legal standards and precautionary policies will also be examined. Ethical concerns of justice, equity, and transparency are prominent themes.  SO

* EVST 290b / URBN 319b, Geographic Information Systems  Charles Tomlin
A practical introduction to the nature and use of geographic information systems (GIS) in environmental science and management. Applied techniques for the acquisition, creation, storage, management, visualization, animation, transformation, analysis, and synthesis of cartographic data in digital form.

* EVST 294a / HUMS 294a / RSEE 355a / RUSS 355a, Ecology and Russian Culture  Molly Brunson
Interdisciplinary study of Russian literature, film, and art from the nineteenth to the twenty-first centuries, organized into four units—forest, farm, labor, and disaster. Topics include: perception and representation of nature; deforestation and human habitation; politics and culture of land-ownership; leisure, labor, and forced labor; modernity and industrialization; and nuclear technologies and disasters. Analysis of short stories, novels, and supplementary readings on ecocriticism and environmental humanities, as well as films, paintings, and visual materials. Several course meetings take place at the Yale Farm. Readings and discussions in English.  HU

* EVST 299b, Sustainable Development Goals and Implementation  Staff
Students develop an understanding of the United Nation's Sustainable Development Goals (SDGs), and focus on how to manage projects that implement the SDGs. Students develop an understanding of the global sustainability agenda, studying each SDG in detail. Students explore and acquire practical project management skills. The course also taps into the expertise and experience of professors and staff from various disciplines and schools, as well as practitioners directly from the field.
EVST 318b / AMST 236b / HIST 199b / HSHM 207b, American Energy History  Paul Sabin
The history of energy in the United States from early hydropower and coal to present-day hydraulic fracturing, deepwater oil, wind, and solar. Topics include energy transitions and technological change; energy and democracy; environmental justice and public health; corporate power and monopoly control; electricity and popular culture; labor struggles; the global quest for oil; changing national energy policies; the climate crisis. WR, HU 0 Course cr

* EVST 323a, Wetlands Ecology Conservation & Management  Kealoha Freidenburg
Wetlands are ubiquitous. Collectively they cover 370,000 square miles in the United States and globally encompass more than 5 million square miles. Most points on a map are less than 1 km from the nearest wetland. Yet wetlands are nearly invisible to most people. In this course we explore wetlands in all of their dimensions, including the critical services they provide to other systems, the rich biodiversity they harbor, their impact on global climate, and the links by which they connect to other systems. Additionally, wetlands are lynchpin environments for scientific policy and regulation. The overarching aim of the course is to connect what we know about wetlands from a scientific perspective to the ways in which wetlands matter for people. SC

* EVST 324b / ANTH 322b / SAST 306b, Environmental Justice in South Asia  Kalyanakrishnan Sivaramakrishnan
Study of South Asia’s nation building and economic development in the aftermath of war and decolonization in the 20th century. How it generated unprecedented stress on natural environments; increased social disparity; and exposure of the poor and minorities to environmental risks and loss of homes, livelihoods, and cultural resources. Discussion of the rise of environmental justice movements and policies in the region as the world comes to grips with living in the Anthropocene. SO 0 Course cr

* EVST 354a / ARCG 000 / ARCG 354a / NELC 324a, The Ancient State: Genesis and Crisis from Mesopotamia to Mexico  Harvey Weiss
Ancient states were societies with surplus agricultural production, classes, specialization of labor, political hierarchies, monumental public architecture and, frequently, irrigation, cities, and writing. Pristine state societies, the earliest civilizations, arose independently from simple egalitarian hunting and gathering societies in six areas of the world. How and why these earliest states arose are among the great questions of post-Enlightenment social science. This course explains (1) why this is a problem, to this day, (2) the dynamic environmental forces that drove early state formation, and (3) the unresolved fundamental questions of ancient state genesis and crisis, –law-like regularities or a chance coincidence of heterogenous forces? Previously HIST 204J. HU, SO

EVST 366b / AMST 364b / FILM 423b, Documentary and the Environment  Charles Musser
Survey of documentaries about environmental issues, with a focus on Darwin’s Nightmare (2004), An Inconvenient Truth (2006), Food, Inc. (2009), GasLand (2010), and related films. Brief historical overview, from early films such as The River (1937) to the proliferation of environmental film festivals. HU RP
* EVST 377b / ANTH 376b, Observing and Measuring Behavior, Part I: Study Design
Eduardo Fernandez-Duque

This is the first course in a spring-fall sequence. The course surveys theoretical issues and practical methods relevant to studying the behavior of animals and humans, primarily in the "wild." Topics covered include formulation of research questions, hypotheses and predictions, study design, sampling methods for studying behavior, genetics, endocrinology, ecology, climate. Students learn and practice various forms of behavioral and ecological sampling, as well as gain familiarity with some widely-used technologies that facilitate the study of behavior (e.g. radiotelemetry). Then, working around a specific research question, students design their own study. Those who choose can develop a study to be implemented during an NSF-funded Summer Program in Argentina (https://www.owlmonkeyproject.com/open-calls). Students who enrolled in ANTH 376 during spring 2021 when the summer program was cancelled due to the pandemic can apply to take part in the 2022 summer program in Argentina and may enroll in ANTH 377 during the fall 2022 term. Prerequisite: Some background (including high school) on evolutionary biology, animal behavior, biology recommended. Contact the Instructor if in doubt. sc, so

* EVST 396a or b, Independent Study: Environmental Studies
Michael Fotos

Independent research under the direction of a Yale faculty member on a special topic in Environmental Studies not covered in other courses and not the focus of the senior essay. Permission of the director of undergraduate studies and of the instructor directing the research is required. A proposal approved by the instructor must be submitted to the director of undergraduate studies by the end of the second week of classes. The instructor meets with the student regularly, in person or remotely, typically for an hour a week, and the student writes a final paper or a series of short essays.

* EVST 399b / ANTH 478b / ARCG 399b, Agriculture: Origins, Evolution, Crises
Staff

Analysis of the societal and environmental drivers and effects of plant and animal domestication, the intensification of agroproduction, and the crises of agroproduction: land degradation, societal collapses, sociopolitical transformation, sustainability, and biodiversity. so

* EVST 422a / ANTH 409a / ER&M 394a / F&ES 422a / GLBL 394a, Climate and Society: Perspectives from the Social Sciences and Humanities
Michael Dove

Discussion of the major currents of thought regarding climate and climate change; focusing on equity, collapse, folk knowledge, historic and contemporary visions, western and non-western perspectives, drawing on the social sciences and humanities. wr, so

EVST 431b, The Physical Science of Climate Change
Staff

The course provides students with core knowledge on the processes controlling the earth’s climate system. The first half of the class focuses on the four components of the earth climate system, providing a knowledge base on the atmospheric energy and water budgets and the roles of anthropogenic greenhouse gases, the oceans, land and cryosphere in altering these budgets. Students also learn how to run a climate GCM (general circulation model). The second half of the class focuses on impacts of climate change on a number of societal sectors including natural ecosystems, energy use, water resources, the food system and the built environment. sc
* EVST 463a and EVST 464b / AMST 463a and AMST 464b / FILM 455a and FILM 456b / THST 457a and THST 458b, Documentary Film Workshop  Staff
A yearlong workshop designed primarily for majors in Film and Media Studies or American Studies who are making documentaries as senior projects. Seniors in other majors admitted as space permits.  RP

* EVST 473a / ARCG 473a / NELC 373a, Climate Change, Societal Collapse, and Resilience  Harvey Weiss
The coincidence of societal collapses throughout history with decadal and century-scale abrupt climate change events. Challenges to anthropological and historical paradigms of cultural adaptation and resilience. Examination of archaeological and historical records and high-resolution sets of paleoclimate proxies.  HU, SO 0 Course cr

* EVST 496a or b, Senior Research Project and Colloquium  Michael Fotos, Jeffrey Park, and Kealoha Freidenburg
Independent research under the supervision of members of the faculty, resulting in a senior essay. Students meet with peers and faculty members regularly throughout the fall term to discuss the progress of their research. Projects should offer substantial opportunity for interdisciplinary work on environmental problems. Seniors in the BS track typically write a two semester senior essay by enrolling in EVST 496 and EVST 496. For the B.A. degree, students most often complete one term of EVST 496, in either the fall or spring semester of their senior year. Students writing the one-term essay in the BA track must also complete an additional advanced seminar in the environment. Two-term senior research projects in the BA track require the permission of the DUS. Single semester essays are permissible also for students completing a double major that involves writing a senior essay in another department or program with permission of the DUS and subject to Yale College academic regulations governing completion of two majors.