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SU: INTRO TO ENVIRONMENTAL STUDIES

ENVS 001 - M, W, F 10:50am - 11:40am (CRN: 90155)

A broad based survey course intended to provide a comprehensive introduction to the multi-disciplinary field of environmental studies through a combination of lectures, discussion seminar, field walks, and site visits. This course examines the ecological, social, and political-economic aspects of contemporary environmental issues from an interdisciplinary perspective. Grading is based on three exams and discussion seminar assignments. Prerequisite: First year or sophomore standing, or instructor permission. Must also register for lab.
This one-credit, six-week course is designed to assist ENVS students in developing an interdisciplinary plan of study that aligns with their academic, personal, and professional goals and interests. A range of panels of speakers and activities will inspire and assist students to take initiative for their education. Students will leave the course having completed an introductory exploration of a “life and livelihood,” and a comprehensive academic plan through graduation. Prerequisites: ENVS major, sophomore standing, ENVS 001 and 002, or permission.
This course offers an introduction to “environmental health” through a lens of sustainability. Our key focus is understanding how to decrease harmful environmental exposures (toxins, infectious diseases, stress-inducing built environments) while increasing beneficial exposures (nature contact, clean air, water, soil). We will cover a range of topics including environmental health methods, risk analysis, vulnerable populations, precautionary approaches, and regulations. We will apply these topics to the health-related impacts of climate change, food, energy, water, and waste. We will work toward developing tools to help us achieve healthy lifestyles and healthy communities that are supportive of the ecological systems upon which our health depends. Prerequisite: sophomore standing
Landscape Design Fundamentals is a studio course that introduces students to the principles of landscape design. Students will examine the world in new and different ways, including observations of natural and cultural phenomena, and studies of form and function on small and large-scale sites. Students will learn to use graphic media and materials, and will keep a sketchbook practicing their skills. This course is cross-listed as PSS 137. Prerequisites: Junior standing; at least one course in drawing, design, or mapping, or permission of the Instructor.
This course is an introduction to the study of economics as dependent on social and environmental systems, and to problem-solving using ecological economics. The class serves two goals: (1) to establish a knowledge base in ecological economics from which to build subsequent problem-based learning courses at UVM, and (2) acquire problem solving skills to address complex social challenges. Prerequisite: Minimum Sophomore standing.
This course covers the basic literature on policy formulation and implementation as it relates to major issues in environmental policy. This course will expose students to policy approaches ranging from climate change to land use issues. Case studies will be an integral part of this course. Students will also be involved in doing a policy analysis on an environmental issue of their choosing. Prerequisite: Minimum sophomore standing; NR 014 or POLS 021. Cross-listed with: NR 153.
A multidimensional approach to sustainable living, permaculture is a “way of thinking”. We will explore each of the fundamental principles underlying the permaculture paradigm. Skills and techniques for “reading the landscape,” developing site-responsive design, and representing interpretations and plans through visual maps and public presentations will be developed through a collaborative design by students in groups. Cross-listed as PSS 156. Prerequisites: 3 credits in biology or ecology. **Must also register for lab.**
LANDSCAPE NATURAL HISTORY
ENVS 173 - M 1:10pm - 4:45pm (CRN: 90861)

Consisting entirely of field trips, this course will explore the nature of Vermont’s landscapes from an interdisciplinary perspective. Through site visits and projects students will learn skills to help understand why landscapes look the way they do. We'll investigate a variety of locations including lakeshores, cliffs, uplands, and ravines—looking at the interactions among rocks, soil, water, plants, animals, weather and human activity, emphasizing how the past has shaped the present. Prerequisite: ENVS 001 or NR 001.

Ian Worley
Ian.Worley@uvm.edu
Professor Emeritus
D2: ECOFEMINISM

ENVS 179 - T 4:35pm - 7:35pm (CRN: 91845)

Exploring the connection between feminism and environmentalism, ecofeminist studies address the traditional interpretation of "nature" as female, the connection between the oppression of women and the exploitation of nature, and ways in which environmental issues often affect women. We will learn about ecofeminist approaches to literature and study ecofeminist theory, and to develop our understanding of the connections between women, nature, sustainability, and patterns of domination. Prerequisite: ENVS 001 or 002, or NR 002, or GSWS 001 and sophomore.
D1: ENVIRONMENTAL JUSTICE
ENVS 181 - T, Th 2:50pm - 4:05pm (CRN: 94086)

This course will examine the environmental toxic exposures and the health disparities affecting the communities of color across the US and the world. Environmental Justice challenges the mainstream environmental and sustainability frameworks. This course will examine foundations of environmental justice concepts, the social movements organized by communities of color to improve justice in both the rural, urban, and indigenous communities, and the links between environmental justice and sustainability movements. Prerequisite: ENVS 001 or 002, or NR 002.

Bindu Panikkar
Bindu.Panikkar@uvm.edu
802 656-5877
As awareness of global climate disruptions continues to rise, popular movements for climate action have come to reflect a diversity of approaches and increasingly embrace a holistic, justice-centered perspective. This course offers a comprehensive critical outlook on the developing climate movement, with a focus on international perspectives, emerging policy debates, diverse local responses to energy extraction, and possible directions for the future. Prerequisites: ENVS 001 or 002, or NR 001 or NR002, or CDAE 002. Minimum sophomore standing or instructor permission.
The Environmental Program places a high value on experiential education. We strongly encourage students to engage in internships, independent study and research, supervised field studies and practicum projects, etc. as an integral part of their undergraduate education. Internships combine supervised work experience with a structured academic learning plan directed by a faculty member, or a faculty-staff team in which a faculty member is the instructor of record, for which academic credit is awarded. Offered at department discretion. Prerequisite: Permission of course coordinator.
This course introduces the concepts of energy, work, and power. Students will learn about energy conversion, utilization, and conservation. The goal is to formulate an understanding of the various alternatives to fossil fuels including solar, wind, biomass, etc. One special topic of the course will be energy systems for rural areas and the role of energy alternatives in community development.

Prerequisites (one of the following): ENVS 001, ENVS 002, NR 001, NR 002, or ENSC 001. Cross-listed with CDAE 006
This course is an urban ecology and wildlife observation course that puts students in charge of finding urban wildlife around campus, and in Burlington, and studying how these animals survive. The type of energy sources we use, the food we eat, the waste we produce, the way we move from one place to another, the types of structures we build, and the noise we make, greatly affect non-human species. The disciplines of urban ecology and urban design for the biophilic city provide the conceptual framework for this course. Prerequisites: ENVS 001, 002 or NR 001, 002 or ENSC 001.
Non-Material Values Ecosystem
ENVS 195 - M, W 3:30pm - 4:45pm (CRN: 95279)

All major typologies of ecosystem services include non-material services that ecosystems provide to people. These Cultural Ecosystem Services include provision of opportunities for spiritual fulfillment, recreation, identity development, maintaining cultural heritage, and fostering psychological well-being. This course will take a deep dive into “Cultural Ecosystem Services,” this relatively little-discussed aspect of the increasingly popular ecosystem services concept. Prerequisites: ENVS 001 or 002 or NR 001 or 002; or ENSC 001, Or Instructor Permission; Sophomore standing.
For many social and environmental activists, the scope and scale of today’s interlinked global crises—from climate change and biodiversity loss to population displacement and ravaging inequality—often seem insurmountable. In the midst of a world ‘on fire,’ how do we keep our heads clear, our hearts open, and our capacities for action intact? Readings of diverse texts will be complemented by practical exercises, writing and presentation assignments, and a practice project linking spirituality to environmental activism. Prerequisite: ENVS 001 or 002
Students explore the historical perspectives of Herbalism, as well as its present-day context within both the realms of complementary/integrative and Western allopathic medicines. The sustainable harvesting, preparation, and storage of herbs are covered. A “weed walk” to view medicinal plants growing on the UVM campus is included. Additional trips may include RAILYARD Community Apothecary and Clinic and Rock Point’s medicine plant-rich land. Prerequisites: ENVS 001 or ENVS 002 or NR 001 or NR 002 or ENSC 001.
An introduction to the environmental humanities exploring the range of values and cultural expressions of the human-nature relationship. We will explore contemporary and historical works of literary, visual, and performative art to see the role the expressive humanities have played in shaping social-cultural attitudes toward nature and the human dilemma of depending on nature as source and sustenance. Prerequisites: ENVS 001 or ENVS 002 or NR 001 or NR 002 or ENSC 001.

Tatiana Abatemarco
Tatiana.Abatemarco@uvm.edu
Lecturer
This course will explore environmental thought, reaching back to the earliest human-environment paradigms, up through the modern and future environmental movement. Focusing on the values that inspire our connection to the natural world, this class will look at the relationship between particular environmental values and environmental action. Students will research across philosophy, history, and social science to hypothesize the future orientations environmental/social movements. Prerequisites: ENVS 001 or ENVS 002 or NR 001 or NR 002 or ENSC 001.
Students Teaching Students (STS) courses are taught by students in the Environmental Program nearly every year. This model redefines the common, traditional concept of education as a one-way dynamic between lecturer and student, professor and professee. Students teach students, learning from each other's experience and open discussion. With careful guidance by faculty, students—usually two together—design a syllabus and detailed teaching plan and present their ideas to the Program faculty for review. Prerequisite: One of the following: ENVS 001, ENVS 002, NR 001, NR 002, ENSC 001.
RESEARCH METHODS

ENVS 201 - T, Th 1:15pm - 2:30pm (CRN: 90314)

The senior thesis is a concentrated, in-depth, hands-on, interdisciplinary research study, or project, in the area of the student's interest. This course prepares students for the planning, design, and research methods necessary to write a proposal for their ENVS 202 capstone thesis or project. It is taught seminar-style and includes instruction and guidance for preparing the literature review and final proposal. Prerequisites: ENVS majors only; Minimum junior standing; ENVS 151 or ENVS 101.

Brendan Fisher
Brendan.Fisher@uvm.edu
802 656-0351
To begin work on your ENVS 202 research and/or project, you must pass ENVS 201, attaining a B grade or better for the research proposal or the project proposal. If you pass ENVS 201, but receive a grade of B- or lower for the proposal, meet with the ENVS 202 Coordinator to determine what changes in the proposal are necessary in order to be acceptable for approval. In most cases this will involve revising the proposal, having it endorsed by at least two advisor/evaluators, and then approved by the ENVS 202 Coordinator. Prerequisites: ENVS 201, ENVS 101 or 151, minimum junior standing.
This course is an in-depth overview of research and applications in the field of agroecology, with a focus on providing the student with conceptual and analytical content. The course combines an international and domestic geographic focus, and examines case studies from the U.S. and abroad. As a service-learning course, students must perform a minimum of 12 hours of service working with our farmer partners. Cross-listed as PSS 212. Prerequisite: Senior or Graduate standing; PSS 021 or 1 semester ecology at or above the 100 level; or permission; Field trip fee: $30. Must also register for lab.
Teaching assistantship for ENVS 001 - the course examines the ecological, political-economic, and the social aspects of contemporary environmental issues from an interdisciplinary perspective. Students gain practical teaching experience through assisting with instruction, evaluation, and reflection. Tasks may include: leading discussion sessions, grading, and developing course materials. Prerequisites: Permission required; minimum junior standing. Variable credit, up to 3 hours, may be repeated.
The Environmental Program places a high value on experiential education. We strongly encourage students to engage in internships, independent study and research, supervised field studies and practicum projects, etc. as an integral part of their undergraduate education. Internships combine supervised work experience with a structured academic learning plan directed by a faculty member, or a faculty-staff team in which a faculty member is the instructor of record, for which academic credit is awarded. Offered at department discretion. Prerequisite: ENVS 002, senior standing, permission.
Environmental Law is a complex topic, and it has a very broad scope. This course covers the most significant Federal environmental laws: the Endangered Species Act, the National Environmental Policy Act, the Clean Air Act, the Clean Water Act, the National Historic Preservation Act, the Toxic Substances Control Act, the Resource Conservation and Recovery Act, and the Comprehensive Environmental Response, Compensation, and Liability Act (Superfund). Prerequisites: Junior or senior standing; either ENVS 001 & 002, or POLS 021
Environmental education is, at its core, about creating a more engaged society. This class will develop and embrace a broad definition of environmental education – one that includes “educational” opportunities for people of all ages. This highly interdisciplinary class will explore the complexity of interactions between information, prior knowledge, attitudes, identity, social interaction, and context. We will draw from a variety of fields, including: education, sociology, psychology, behavioral economics, communication, art, and religious studies.

Prerequisite: junior or senior standing

Environmental Education
ENVS 294 - T, Th 2:50pm - 4:05pm (CRN: 91607)

Rachelle Gould
Rachelle.Gould@uvm.edu
802 656-5849
In the U.S. car use has steadily increased since the early part of the 20th century. Today, mobility is defined as automobility, or motorization, because about 85 percent of the trips we take (for a purpose) are in automobiles. Central to the growth in automobility has been the size, power and force of the automobile industry. Cars have become woven into American culture so much that it has become cliché to say that we have a “love affair with the car.” Prerequisites: ENVS 001 or 002, or NR 001, or ENSC 001
Community-based conservation encompasses a diverse and growing set of integrative, place-based and collaborative approaches to protecting and sustainably using natural resources to achieve social and environmental goals. Its importance to both ecosystem health and local livelihoods has been growing and evolving across the world. This advanced, service-learning course combines social science theory, empirical evidence and field practice related to community-based management of forests and wildlife. Prerequisites: junior or senior standing.
The Arctic has become a lens through which to understand the world. An unstable Arctic poses threats, not only to the future of the region, but also to the world itself. In this course we will explore a landscape that is rapidly changing, largely as a result of socioeconomic and climate changes. This seminar provides an overview of histories and approaches to human-environment interactions in the circumpolar Arctic, with a focus on the contexts of sustainability, resilience, equity and social justice. Prerequisite: junior or senior standing.
Be the change you want to see in the world! This is a community-based course. By participating in an after-school birding and nature study club for kids, UVM students are laying the foundation for a university pipeline program; many Flynn and Hunt students will become first-generation college students. It will require humility, patience, persistence, flexibility, long underwear (over half of the course is taught outside), and a sense of humor. In this course UVM students will learn how to identify Vermont’s most common birds by sight and sound, then they will teach that skill to an elementary school student. Prerequisite: junior or senior standing.
COMMONLY ACCEPTED NON-ENVS COURSES

**Anthropology**
- ANTH 179: D2: Environmental Anthropology

**Animal Science**
- AS 195: Internship

**Community Development and Applied Economics**
- CDAE 102: Sustainable Community Development
- CDAE 171: Community and International Economic Transformation
- CDAE 237: Economics of Sustainability

**Chemical & Environmental Engineering**
- CE 132: SU: Environmental Systems
- CE 151: SU: Water & Wastewater Management
- CE 235: Transportation & Air Quality

**Geography**
- GEOG 140: Biogeography
- GEOG 245: Rural Nature

**Health**
- HLTH 105: D2: Cultural Health Care
- HLTH 141: Healing Touch Level 1
- HLTH 142: Healing Touch Level 2
- HLTH 155: D1: Racism & Health Disparities

**Natural Resources**
- NR 103: Ecology, Ecosystems, & Environment
- NR 143: Intro to Geographic Information Systems
- NR 242: Advanced Geospatial Techniques
- NR 280: Stream Ecology
- NR 288: Ecological Design & Living Technology

**Plant Biology**
- PBIO 109: Plant Systematics

**Political Science**
- POLS 180: SU: Comparative Environmental Politics

**Parks, Recreation, and Tourism**
- PRT 149: Landscape Architecture for Parks & Recreation
- PRT 230: Environmental Interpretation

**Plant and Soil Science**
- PSS 106: Entomology & Pest Management
- PSS 112: Weed Ecology & Management
- PSS 161: SU: Fundamentals of Soil Science

**Wildlife and Fisheries Biology**
- WFB 161: Fisheries Biology & Techniques
- WFB 174: Principles of Wildlife Management
- WFB 275: Wildlife Behavior