ENGLISH SCIENCES IN
THE RUBENSTEIN SCHOOL OF
ENVIRONMENT AND NATURAL
RESOURCES

http://www.uvm.edu/~ensc/

The environment is a common theme in the courses offered at UVM. The Rubenstein School of the Environment and Natural Resources partners with the College of Agriculture and Life Sciences and the College of Arts and Sciences to offer two interdisciplinary majors: Environmental Sciences and Environmental Studies.

The interdisciplinary Environmental Sciences major combines a natural science-based core curriculum with hands-on experience needed to identify, analyze, and solve environmental problems arising from human activity. Blending hands-on field and laboratory instruction with real-world environmental internship, research, and study abroad opportunities, students acquire the skill set needed to tackle complex environmental problems. With the School’s emphasis on such cutting-edge areas as ecological design, restoration of damaged ecosystems, and environmental assessment, Environmental Sciences graduates are equipped with the knowledge to protect the health and integrity of our terrestrial, aquatic, and urban ecosystems.

MAJORS

ENVIRONMENTAL SCIENCE MAJOR

Environmental Sciences B.S.

Courses

ENS C 001. Intro Environmental Sciences. 3 Credits.
Emphasizes the impacts of human activity on the environment. Attention to resources at risk and pollutant fate and effects on ecosystems.

ENS C 009. Orientation to Env Sciences. 1 Credit.
Introducing new majors to the environmental sciences through field trips, panel discussions and group projects. Pre/co-requisites: First-Year RSENR and CALS ENSC majors.

ENS C 130. Global Environmental Assessment. 0 or 3 Credits.
Assessment of human impacts on the global environment. Hands-on application of satellite remote sensing and geographic information systems to address key environmental issues. Prerequisite: BIOL 001 or BOT 004, CHEM 023, or equivalent, MATH 019.

ENS C 160. Pollutant Mvmt/Air, Land & Water. 0 or 4 Credits.
Physical, chemical, and biological aspects of pollutant behavior from source to ultimate fate. Laboratory methodologies for measuring pollutants and predicting their transport, behavior, and fate. Prerequisites: ENSC 001; BIOC 011, BIOC 012; CHEM 031, CHEM 032; MATH 019, MATH 020.

ENS C 185. Special Topics. 1-12 Credits.
See Schedule of Courses for specific titles. Variable credit.

ENS C 195. Internship. 1-6 Credits.
Professionally-oriented field experience under joint supervision of faculty and business or community representative. Prerequisite: Proposal and permission of ENSC Director; Junior standing; good academic standing; Maximum of six hours. Three can be applied to elected concentration with Director permission.

ENS C 196. Independent Research. 1-6 Credits.
Special study and research activity under the directory of a faculty member. Prerequisite: Proposal and permission of ENSC Director; Junior standing; good academic standing. Up to six hours. Three can be applied to elected concentration with Director permission.

ENS C 201. Recovery & Restoration Altered Ecosystems. 0 or 3 Credits.
Role of stress and disturbance and the natural process of recovery in aquatic and terrestrial ecosystems. Human efforts to modify, restore, and remediate altered ecosystems. Prerequisites: NR 103 or an intermediate-level ecology course; or Instructor permission. ENSC 160 strongly recommended.

ENS C 202. Ecological Risk Assessment. 0 or 3 Credits.
Approaches used to identify, measure, and manage ecological risk. Problem formulation, characterization, uncertainty analysis, and risk management. Case studies. Prerequisite: ENSC 201, NR 140 or STAT 141; Senior standing, or Instructor permission.

ENS C 222. Pollution Ecology. 3 Credits.
Impacts of pollutants on the structure and function of ecosystems. Examination of how air, land, and water influence fate and effects of pollutants. Prerequisites: BCOR 011, CHEM 023, NR 103, or equivalent ecology course.

ENS C 285. Advanced Special Topics. 1-12 Credits.
See Schedule of Courses for specific titles. Prerequisite: Senior standing or Instructor permission. Variable credit.

ENS C 299. Environmental Sciences Honors. 1-6 Credits.
Honors project dealing with environmental sciences. Prerequisite: By application only, see program chair. Not approved for Graduate credit.