ENVIRONMENTAL 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
ENSC 001. SU: Intro Environmental Sci. 3 Credits.
Emphasizes the impacts of human activity on the environment. Attention to resources at risk and pollutant fate and effects on ecosystems.

ENSC 009. Orientation to Env Sciences. 1 Credit.
Introducing new majors to the environmental sciences through field trips, panel discussions and group projects. Prerequisites: First-Year Rubenstein School of Environment and Natural Resources and College of Agriculture and Life Sciences Environmental Sciences majors.

ENSC 130. Global Environmental Assessmnt. 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. Prerequisites: MATH 019 and either BCOR 011 or BOT 004 and either CHEM 023 or CHEM 031.

ENSC 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, BCOR 011, BCOR 012, CHEM 031, CHEM 032, MATH 019, and MATH 020.

ENSC 185. Special Topics. 1-12 Credits.
See Schedule of Courses for specific titles.

ENSC 191. Internship. 1-6 Credits.
Professionally-oriented field experience under joint supervision of faculty and business or community representative. Maximum of six hours. Three can be applied to elected concentration with Director permission.

ENSC 192. Independent Research. 1-6 Credits.
Special study and research activity under the directory of a faculty member. Up to six hours. Three can be applied to elected concentration with Director permission.

ENSC 195. Internship. 1-6 Credits.
Professionally-oriented field experience under joint supervision of faculty and business or community representative. Maximum of six hours. Three can be applied to elected concentration with Director permission.

ENSC 196. Independent Research. 1-6 Credits.
Special study and research activity under the directory of a faculty member. Up to six hours. Three can be applied to elected concentration with Director permission.

ENSC 201. Recovery&Restor Altered Ecosys. 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: ENSC 160 and either NR 103 or BCOR 102.

ENSC 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. Prerequisites: ENSC 201 and either NR 140 or STAT 141.

ENSC 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, and either NR 103 or BCOR 102.

ENSC 285. Adv Special Topics. 1-12 Credits.
See Schedule of Courses for specific titles. Prerequisite: Senior standing.

ENSC 295. Advanced Special Topics. 1-18 Credits.
See Schedule of Courses for specific titles. Prerequisite: Senior standing.

ENSC 299. Environmental Sciences Honors. 1-6 Credits.
Honors project dealing with environmental sciences. Not approved for Graduate credit.