

ENVIRONMENTAL SCIENCES IN THE COLLEGE OF ARTS AND SCIENCES

This program is not currently accepting students. Please see the Rubenstein School of Environment and Natural Resources for Environmental Sciences and the College of Arts and Sciences for Environmental Studies.

MAJORS

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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 049. SU: Climate Change I. 3 Credits.

Explores how and when climate has changed over time and its impact on people and ecosystems; how humans have altered Earth's climate historically; how climate will change in the future; and implications for people and planet. Learn to communicate about climate change and take action. Credit not awarded for both ENSC 049 and ENSC 149.

ENSC 090. Internship. 1-3 Credits.

On-site supervised work experience combined 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.

ENSC 092. Independent Study. 1-18 Credits.

A course which is tailored to fit the interests of a specific student, which occurs outside the traditional classroom/laboratory setting under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.

ENSC 095. Special Topics. 1-18 Credits.

See Schedule of Courses for specific titles.

ENSC 130. Global Environmental Assessmnt. 0 or 3 Credits.

Introduction to skills for assessing human impacts on the global environment. Theory and application of GPS, geographic information systems and satellite remote sensing to address key environmental issues. Prerequisites: Environmental Sciences major.

ENSC 148. Global Environmental Change. 3 Credits.

Explores changes in natural processes and anthropogenic activities that influence the atmosphere, hydrosphere, and biosphere individually and through interactions and feedbacks from a distinctly spatial perspective employed by physical geographers. Prerequisites: GEOG 040 or ENSC 001. Cross-listed with: GEOG 148.

ENSC 149. SU: Climate Change II. 1 or 3 Credit.

Advanced exploration of how and when climate changed over time; impact on people and ecosystems; how humans have altered Earth's climate historically; how climate will change in the future; what this implies for people and planet. Learn to communicate about climate change and take action. Credit not awarded for both ENSC 049 and ENSC 149. Prerequisites: One class in physical or natural sciences or engineering.

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 or BIOL 001, BCOR 012 or BIOL 002, CHEM 031, CHEM 032, MATH 019 or MATH 021, and MATH 020 or MATH 022.

ENSC 185. Special Topics. 1-18 Credits.

See Schedule of Courses for specific titles.

ENSC 192. Independent Study. 1-18 Credits.

Tailored to the interests of a specific student, occurs outside the traditional classroom/laboratory setting under faculty supervision, for which credit is awarded. Offered at department discretion. Up to six hours. Three can be applied to elected concentration with Director permission.

ENSC 195. Internship. 1-18 Credits.

On-site supervised work experience combined 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. Maximum of six hours. Three can be applied to elected concentration with Director permission.

ENSC 196. Undergraduate Research. 1-18 Credits.

Undergraduate student work on individual or small team research projects under the supervision of a faculty member, for which credit is awarded. Offered at department discretion. Up to six hours. Three can be applied to elected concentration with Director permission.

ENSC 197. Teaching Assistantship. 1-3 Credits.

Undergraduate student service as a teaching assistant, usually in an introductory-level course in the discipline, for which credit is awarded. Offered at department discretion.

ENSC 201. Recovery&Restor Altered Ecosys. 0 or 4 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; NR 103 or BCOR 102.

ENSC 202. Applied Envir Assess Analysis. 0 or 4 Credits.

Approaches used to identify, evaluate, and manage environmental risks. Focus on interactions among ecological, economic, and social considerations; often utilizing a watershed perspective. Problem formulation, methods selection. Case studies. Project-oriented. Prerequisites: Senior standing; Environmental Sciences major.

ENSC 274. SU: Climate Chg: Sci & Percept. 3 Credits.

Students will develop a complete scientific understanding of climate change's causes and consequences and learn how to effectively communicate climate change science and address commonly-used arguments against climate change. Prerequisites: BCOR 102 or NR 103.

ENSC 290. Internship. 1-18 Credits.

On-site supervised work experience combined 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.

ENSC 292. Independent Study. 1-18 Credits.

A course which is tailored to fit the interests of a specific student, which occurs outside the traditional classroom/laboratory setting under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.

ENSC 295. Advanced Special Topics. 1-18 Credits.

See Schedule of Courses for specific titles. Prerequisite: Senior standing.

ENSC 296. Undergraduate Research. 1-18 Credits.

Undergraduate student work on individual or small team research projects under the supervision of a faculty member, for which credit is awarded. Offered at department discretion.

ENSC 297. Teaching Assistantship. 1-3 Credits.

Undergraduate student service as a teaching assistant, usually in an introductory-level course in the discipline, for which credit is awarded. Offered at department discretion.

ENSC 299. Environmental Sciences Honors. 1-6 Credits.

Honors project dealing with environmental sciences. Not approved for Graduate credit.