

Natural Sciences Gateway Courses (for BS)

ENVS 110 The Earth's Climate
BIOL 131 Urban Wildlife Ecology
BIOL 141 Global Perspectives in Biodiversity and Conservation
CHEM 141 Chemistry in Context
ENGR 108 Science and Policies: Energy and Sustainability

Social Sciences Gateway Courses (for BA)

PBPL 113 Introduction to Law
URST 101 Introduction to Urban Studies

Natural Sciences Electives

BIOL 204. Plant Diversity
BIOL 215L. Botany
BIOL 222L. Invertebrate Zoology
BIOL 228L. Microbiology
BIOL 233. Conservation Biology
BIOL 336L. Marine and Freshw. Botany
BIOL 430 Avian Ecol. and Conservation
BIOL 463L. Ecol. Concepts and Methods
CHEM 205 Atmospheric Chemistry
CHEM 311L. Analytical Chemistry
CHEM 211L. Organic Chemistry I
CHEM 312L. Instr. Meth. of Chem. Anal.
CHEM 430. Env. Toxicology
CPSC 215L. Data Struct. and Algorithms
ENGR 232L. Engineering Materials
ENGR 337. Thermodynamics
ENVS 286. Theory and Appl. of GIS*
ENVS 305. Soil Science
ENVS 350 Field Trip (1/2 cr. only)
MATH 207. Stat. Data Anal.
MATH 252. Intro. to Math. Modeling I
MATH 254. Intro. to Math. Modeling II
PHYS 231L. Electr., Magnet. and Waves

Social Sciences Electives

ANTH 227. Intro to Political Ecology
ANTH 253. Urban Anthropology
ECON 209. Urban Economics
ECON 247 Intro to Policy Analysis
ECON 301. Microeconomic Theory
ECON 311. Environmental Economics
PHIL 227. Environmental Philosophy
PBPL 220. Research and Evaluation
PBPL 302. Law and Environmental Policy
PBPL 303. Real World Policy Implem.
HIST 208 North American Env. History
HIST 308 Food and Power in the Am.
INTS 234 Political Geography
INTS 238 Contemp. Africa
SOCL 227 FromHartford to World Cities
URST 210 Sustainable development

Courses at Other Institutions

Students who wish major credit for course work at other institutions should: (1) receive approval from the Registrar for college credit, and (2) submit to the director of the Environmental Science program the name of the institution, the number, title, and catalogue description of the course and, the syllabus. This information must be submitted in writing before the work is initiated and formal permission must be obtained before the course can be credited toward the major at Trinity. Students may also wish to participate in semester programs that focus on serious environmental science study. Among the suitable programs in which Trinity students participate regularly are as follows.

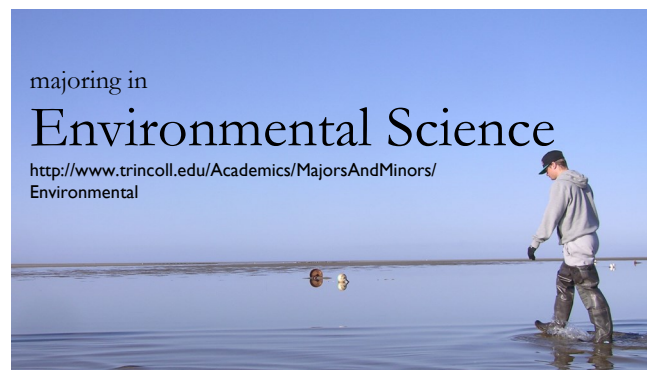
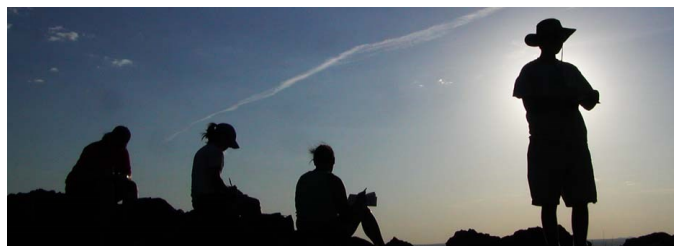
- Duke University Marine Laboratory
- Marine Biol. Lab Semester in ENVS, Woods Hole
- School for Field Studies
- EcoQuest New Zealand

Field Studies in Environmental Science

Field Trip ENVS 350. This 10-12 day field trip to a particular region in the U.S. introduces students to field methods in environmental science. Students study geology, ecology, and history of human impact on the region. Students gain experience in basic field sampling techniques, observational skills, field note-taking, and data analysis. Pre-trip readings and oral presentation given during the trip are required.

Advanced Placement

Students who have received an Advanced Placement grade of 4 or 5 in Environmental Science will be excused from ENVS 149L and receive one credit toward the major.



majoring in

Environmental Science

<http://www.trincoll.edu/Academics/MajorsAndMinors/Environmental>

Environmental Science is an interdisciplinary major concerned with understanding the complex interaction between processes that shape our natural environment and human influences upon them. It draws upon the fields of biology, chemistry, physics, earth science, computer science, and engineering and has bearings on areas such as public policy, medicine, economics, and law. This integration of several sciences fosters the exchange of information and ideas on the scientific problems and issues of the environment that range from local to regional to global. They have an impact on economic growth, food production, human health, and the overall quality of life for all living things. Solutions require practitioners trained to comprehend both: (1) the broad functioning of the biosphere and (2) the way in which humans, especially through economics and public policy, both respond to and effect challenges and threats to the biosphere.

ENVS Faculty

Program Director:

Christoph Geiss (Assoc. Prof. of Physics and Env. Science)

Joan Morrison (Prof. of Biology)

Cameron Douglass (postdoctoral fellow)

Jonathan Gourley (laboratory coordinator)





Trinity College's location in the capital of Connecticut offers a wide range of opportunities for the study of a complex urban environment and direct contact with city, state, and federal regulatory agencies. Although many people equate environmental science with the natural world, most humans live in metropolitan areas. These areas have a tremendous impact on the environment: energy, water, food, housing and transportation. Students majoring in environmental science will receive a solid training in the natural sciences.

Our program is extremely hands-on: most of our courses include laboratories, and many students conduct research with faculty members. Elective courses from the social sciences and humanities enable our students to see environmental issues in a broader context. Most of our students spend at least a semester abroad.

After graduation, many of our students manage natural resources, work for state and federal agencies, or state government. Some of our graduates go on to graduate school (including medical school) or decide to teach science. The possibilities are nearly endless.



The Environmental Science Major

Trinity's Environmental Science Program offers a BS or BA in Environmental Science. Both degrees provide a solid foundation in the natural sciences, but the BA option allows students to count more social science and humanities courses towards the ENVS degree.

Fourteen courses and an integrating experience are required for the major. Only courses with a grade of C- or better may be counted toward the major.

A. Natural Science and Mathematics Foundational Requirements

It is recommended that students complete these courses by the end of the sophomore year. Students are encouraged to take a full year of each science and a full year of mathematics. Students planning to go on to graduate school are encouraged to take a full year of calculus.

for more information see:

<http://www.trincoll.edu/Academics/MajorsAndMinors/Environmental/Pages/Major.asp>

- BIOL 182L
- CHEM 111L
- MATH 107 or, 2017, 126, 131 or higher
- ENVS 112L
- PHYS 101L, or 131L or one of the ENVS gateway courses

B. Environmental Science Core Courses

All three courses must be taken.

- ENVS 149L
- ENVS 275L (course not available to first-year students)
- ENVS 401 (taken second semester senior year)
- integrating experience (laboratory or library research, internship etc.)

C. Concentration Courses

Students must take two of these courses. The third may be taken as one of the two required natural science electives.

- BIOL 333L
- CHEM 230L (prerequisite: Chemistry 112L)
- ENVS 204L

Students pursuing a bachelor of arts (BA) degree select one course from the above list and one additional social sciences course.

D. Natural Sciences Elective Courses

To earn a bachelor of science, (BS) students will take two additional courses from a pre-approved list of upper-level science courses. Students pursuing a bachelor of arts (BA) degree can select any two courses from a list of upper-level natural sciences, social sciences or humanities courses.

E. Social Sciences Elective Courses

Students can choose two courses from a preapproved list of upper-level social sciences / humanities courses

The Environmental Science Minor

The minor in environmental science is an option for students who do not wish to major in environmental science but wish to enhance their scientific background in conjunction with other interests in the environment. The minor in environmental science consists of six courses requiring a C- or better: The six courses must be drawn from at least three different fields, with no more than three courses from any one field. No more than three courses may be double counted toward the student's major and this minor. No more than one transfer (outside Trinity) credit may be applied to the minor.

A. Two required ENVS core courses

- ENVS 149L
- ENVS 401

B. One of the following course sequences

- BIOL 182L, BIOL 233L
- CHEM 111L, ENVS 275L
- ENVS 112L, ENVS 204L
- PHYS 131L, PHYS 231L

Two additional electives in either natural or social sciences or humanities. No more than one additional course can be taken from the natural science electives.

A list of elective courses can be found at:

<http://www.trincoll.edu/Academics/MajorsAndMinors/Environmental/Pages/Minor.aspx>

Over time courses may be added to or removed from this, depending on course availability.