



Environmental Studies Major

www.Geology.Pitt.edu/Undergraduate

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Rapid growth in human population and development has led to complex environmental problems, both locally and globally. The way in which we address these issues will have a profound effect on our society and planet. Enlightened solutions require a strong component of scientific knowledge and an awareness of the relevant societal issues.

The Bachelor of Arts in Environmental Studies equips students with an understanding of earth systems and the environment, including the effect of geologic processes on human activity, and the impact of humans on the biosphere, atmosphere, hydrosphere, and global climate. Courses in the natural and social sciences supplement a traditional liberal arts curriculum to provide a comprehensive, interdisciplinary background in the scientific, economic, political, and social aspects of human interaction with the environment.

The Environmental Studies degree provides a strong, balanced background for students who seek careers in fields such as resource development and management, environmental policy and regulation, risk assessment, land use planning, public policy, and education. Potential employers include local, state or federal governments, non-profit organizations, consulting firms, or companies affected by environmental issues or regulations. Graduates of the Environmental Studies program can also pursue postgraduate study in fields such as business, law, medicine, public policy, education, international relations, urban and regional planning, environmental management, Geographical Information Systems (GIS), and public health.

The Environmental Studies Program combines four components:

- Core courses provide a fundamental understanding of environmental processes, issues and policy, including an interdisciplinary capstone course, an internship, and a field study course to provide hands-on experience
- Co-requirements provide the necessary prerequisites for later study
- Electives in the natural and social sciences allow the student to explore environmental issues with greater depth
- Students are strongly encouraged to undertake an independent research project as well as courses in public policy and environmental issues, management, health and safety, and sustainability (See Geology classes numbered 1330 through 1342).

Required courses for the Environmental Studies major

The environmental studies major requires the completion of 73 credits distributed as follows.

Geology core requirements

All of the following

- GEOL 0055 Physical Geology Lab
- GEOL 0840 Intro to Environmental Science
- GEOL 1030 Atmosphere, Oceans, and Climate
- GEOL 1313 Communication for Environmental Professionals (W-course)
- GEOL 1333 Sustainability
- GEOL 1445 GIS, GPS, and Computer Methods for Earth Scientists

Legal Studies

- GEOL 1312 Environmental Law and Policy or
- LEGLST 1320 Law and Environment

One of the following

- ECON 0100 Introduction to Microeconomic Theory
- ECON 0110 Introduction to Macroeconomic Theory
- ECON 0800 Introduction to Economics

One of the following

- EOH 2180 Introduction to Risk Sciences and
- EOH 2181 Risk Assessment Practicum
- HPS 0611 Principles of Scientific Reasoning

One of the following

- GEOL 1055 Environmental Science, Ethics, and Public Policy
- GEOL 1056 Environmental Science, Ethics, and Public Policy (UHC)

Environmental Science field course*

- | | |
|--|-------------------------------------|
| <input type="checkbox"/> GEOL 1930 Yellowstone | <input type="checkbox"/> BIOSC 1190 |
| Field Class | <input type="checkbox"/> BIOSC 1230 |
| <input type="checkbox"/> GEOL 1950 Wyoming | <input type="checkbox"/> BIOSC 1330 |
| Field Studies in Ecology | <input type="checkbox"/> BIOSC 1390 |
| and Paleontology | <input type="checkbox"/> BIOSC 1400 |
| <input type="checkbox"/> BIOSC 1140 | <input type="checkbox"/> BIOSC 1420 |
| <input type="checkbox"/> BIOSC 1170 | <input type="checkbox"/> BIOSC 1610 |
| <input type="checkbox"/> BIOSC 1180 | |

* This requirement can also be satisfied by taking any BIOSC course offered at the Pymatuning Ecology Laboratory or an approved environmental science field course offered through an outside institution. In either case, the substituted course must have a credit value of not less than two credits.

Internship

___ GEOL 1900 Internship

Co-requirements

___ CHEM 0110 General Chemistry

One of the following

___ MATH 0125 Calculus for Business 1 and
 ___ MATH 0126 Calculus for Business 2
 ___ MATH 0120 Business Calculus
 ___ MATH 0220 Analytic Geometry and Calculus 1
 ___ PUBSRV 1110 Fin. Mgmt. for the Public Sector
 ___ PUBSRV 1210 Fin. Mgmt. for Nonprofit Org

One of the following

___ STAT 0200 Basic Applied Statistics
 ___ STAT 1000 Applied Statistical Methods
 ___ STAT 1100 Statistics and Probability for Business Mgmt.

Grade requirements

A minimum GPA of 2.0 is required in those courses that count toward the major. All core courses, co-requirements, and electives must be passed with a grade of C or better.

Satisfactory/No Credit option

There is no limit on the number of courses in the major that can be taken on an S/NC basis.

Writing (W) requirement

GEOL 1313 satisfies this requirement for Environmental Studies majors.

Advising

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Electives

These credits are to be distributed among courses in the social sciences and the humanities, and among courses in the natural sciences and engineering.

Other courses may be appropriate; see departmental advisor for new additions to the electives list.

Social Sciences / Humanities (12-credits)**Anthropology**

___ ANTH 0582
 ___ ANTH 0601
 ___ ANTH 0680
 ___ ANTH 0681
 ___ ANTH 0780
 ___ ANTH 1524
 ___ ANTH 1528
 ___ ANTH 1541
 ___ ANTH 1762
 ___ ANTH 1763

Communication

___ COMMRC 1149

Economics

___ ECON 0360
 ___ ECON 0500
 ___ ECON 0530
 ___ ECON 1360

English

___ ENGLIT 0710
 ___ ENGLIT 0812
 ___ ENGLIT 1005

Gender, Sexuality, and Women's Studies

___ GSWS 1450

History

___ HIST 0700
 ___ HIST 0705
 ___ HIST 1668
 ___ HIST 1669
 ___ HIST 1695

History and Philosophy of Science

___ HPS 0608
 ___ HPS 0610
 ___ HPS 0620
 ___ HPS 0621
 ___ HPS 1653

History of Art and Architecture

___ HAA 0940

Political Science

___ PS 1232
 ___ PS 1235
 ___ PS 1261
 ___ PS 1374
 ___ PS 1538
 ___ PS 1542
 ___ PS 1543

Religious Studies

___ RELGST 1518
 ___ RELGST 1519
 ___ RELGST 1770

Sociology

___ SOC 0230
 ___ SOC 0312
 ___ SOC 1440
 ___ SOC 1445
 ___ SOC 1446

Urban Studies Program

___ URBNST 0080
 ___ URBNST 1102
 ___ URBNST 1104
 ___ URBNST 1300
 ___ URBNST 1614
 ___ URBNST 1700

College of Business Administration

___ BUSENV 1701
 ___ BUSENV 1765

Graduate School of Public and International Affairs

___ PIA 2115
 ___ PIA 2140
 ___ PIA 2164
 ___ PIA 2388
 ___ PIA 2502
 ___ PIA 2510
 ___ PIA 2520
 ___ PIA 2522
 ___ PIA 2715

Public Service

___ PUBSRV 1230
 ___ PUBSRV 1300
 ___ PUBSRV 1310
 ___ PUBSRV 1320
 ___ PUBSRV 1455

Natural Sciences / Engineering (12-credits)**Biological Sciences**

___ BIOSC 0050 or 0057 Lab
 ___ BIOSC 0150*
 ___ BIOSC 0067 Lab
 ___ BIOSC 0160*
 ___ BIOSC 0350
 ___ BIOSC 0370

Chemistry

- ___ CHEM 0120
- ___ CHEM 0250
- ___ CHEM 0310
- ___ CHEM 0350

Computer Science

- ___ CS 0090
- ___ CS 0134
- ___ CS 0334
- ___ CS 0590

Geology and Environmental Science

- ___ GEOL 0060
- ___ GEOL 1001
- ___ GEOL 1015
- ___ GEOL 1020
- ___ GEOL 1051
- ___ GEOL 1052
- ___ GEOL 1060
- ___ GEOL 1100
- ___ GEOL 1200
- ___ GEOL 1330**
- ___ GEOL 1331**
- ___ GEOL 1332**
- ___ GEOL 1334**
- ___ GEOL 1335**
- ___ GEOL 1336**
- ___ GEOL 1337**
- ___ GEOL 1338**
- ___ GEOL 1339**
- ___ GEOL 1340**
- ___ GEOL 1341**
- ___ GEOL 1342**
- ___ GEOL 1410
- ___ GEOL 1446
- ___ GEOL 1460
- ___ GEOL 1510
- ___ GEOL 1515
- ___ GEOL 1641**
- ___ GEOL 1701

Physics and Astronomy

- ___ ASTRON 0087
- ___ PHYS 0087
- ___ PHYS 0089
- ___ PHYS 0091
- ___ PHYS 0110
- ___ PHYS 0174

Civil and Environmental Engineering

- ___ CEE 1210
- ___ CEE 1503
- ___ CEE 1513
- ___ CEE 1514

*,** Students are strongly encouraged to take these courses. Courses noted with * are prerequisites for Pymatuning field and other courses.