

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

- ___ LEGLST 1320 Law and Environment

One of the following

- ___ ECON 0100 Introduction to Microeconomic Theory
- ___ ECON 0110 Introduction to Macroeconomic Theory
- ___ ECON 0120 Introductory Economic Theory
- ___ ECON 0800 Introduction to Economics

One of the following

- ___ EOH 2180 Introduction to Risk Sciences and
- ___ EOH 2181 Risk Assessment Practicum
- or
- ___ 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*

- | | |
|------------------------------|---|
| ___ BIOSC 0740 | ___ BIOSC 1330 |
| ___ Yellowstone Field Course | ___ BIOSC 1390 |
| ___ BIOSC 1140 | ___ BIOSC 1400 |
| ___ BIOSC 1170 | ___ BIOSC 1420 |
| ___ BIOSC 1180 | ___ BIOSC 1610 |
| ___ BIOSC 1190 | ___ HONORS 1540 Honors Field Studies in Wyoming |
| ___ BIOSC 1230 | |

* 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.

Related Area: A related
area is not required due
to the interdisciplinary
nature of this major.

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 0780
___ ANTH 1524
___ ANTH 1528
___ ANTH 1763

Communication

___ COMMRC 1149

Economics

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

English

___ ENGLIT 0710
___ ENGLIT 1005

History of Art and Architecture

___ HAA 0940

History

___ HIST 0700
___ HIST 1668

History and Philosophy of Science

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

Political Science

___ PS 1232
___ PS 1235
___ PS 1261
___ PS 1267
___ PS 1538
___ PS 1542
___ PS 1543

Religious Studies

___ RELGST 1518
___ RELGST 1519
___ RELGST 1770

Sociology

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

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

Natural Sciences / Engineering (12-credits)

Biological Sciences

___ BIOSC 0050 Lab
___ BIOSC 0150*
___ BIOSC 0067 Lab
___ BIOSC 0160*
___ BIOSC 0350
___ BIOSC 0370
___ BIOSC 0390 Lab

* Students are strongly encouraged
to take these courses because they
are prerequisites for the Pymatuning
field courses and other courses.

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 1201
___ GEOL 1309
___ 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 1640
___ GEOL 1641**
___ GEOL 1701

** Students are strongly
encouraged to take these
courses.

Physics

___ PHYS 0087
___ PHYS 0089
___ PHYS 0091
___ PHYS 0110
___ PHYS 0174

Civil and Environmental Engineering

___ CEE 1210/2210
___ CEE 1503
___ CEE 1513
___ CEE 1514