



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

Danielle M. Andrews-Brown
SRCC 202
412-624-6615
DMA65@Pitt.edu

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
___ BIOSC 0390 Lab

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

___ 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.