

**Plant Biology—Environmental Biology Major (B.S.)
Special curriculum; major code BS2113**

A major in Environmental Biology provides rigorous preparation, potentially leading to graduate-level training and/or entry level jobs in research, teaching, natural resource management, conservation planning, or science administration. You will receive a strong conceptual understanding of environmental and plant biology, competency with important tools and techniques, and a good background in the natural sciences. The program draws on supporting courses in geography, geology, mathematics, animal biology, physics, and chemistry. It is suggested that students completing this major also obtain the Environmental Studies Certificate. Students are expected to do research in the labs of faculty members or carry out an internship. Graduates of this program are working (for example) in urban forestry, directing the ecological restoration of strip mines, teaching in various colleges and universities, and collecting medicinal plants in Africa. Several graduates have gone into environmental law.

This program differs from other environmental science programs at Ohio University in that it focuses on plants, which are the foundation of life on earth and hence critical to an understanding of environmental science. Students graduating with this major will have marketable skills in plant identification, vegetation survey techniques, statistics, experimental design, and applied computer technology.

Required P BIO courses

PBIO 114	Cellular Foundations of Plant Biology	5
PBIO 115	Plant Structure and Development	4
PBIO 209	Plant Ecology	4
PBIO 210	Plant Physiology	4
PBIO 211	Diversity of Life	5
PBIO 331	Plant Genetics	5
PBIO 309	Plant Systematics and Ohio Flora	6
PBIO 415	Quantitative Methods in Plant Biology	5
PBIO 426 or PBIO 435 or PBIO 436 or PBIO 437	Plant Physiological Ecology Plant Population Biology Plant Community Ecology Ecosystem Ecology	5 5 5 4
PBIO 404 or PBIO 490	Undergraduate Research Internship	2

Additional PBIO credit hours at 200 level or above to total at least 53 hours, but no more than 80. A maximum of 6 hours of PBIO 404 and 490 combined may count toward the 53-hour requirement.

Recommended departmental elective:

PBIO 418 Writing in the Plant Sciences 4

Required nondepartmental courses

CHEM 121, 122, 123 Prin. of Chemistry 12
or CHEM 151, 152, 153 Fund. of Chemistry 15

CHEM 301, 302 Organic Chemistry 6
 BIOS 171, 173 Intro to Zoology 6

Any BIOS course of 4 credits or more at 300–400 level (see recommended electives below)

GEOG 201 Environmental Geography 4
 GEOG 370 Geog. Inform. Sys. Applic. 4
 GEOL 101 Intro to Geology 5

MATH 163A Intro to Calculus 4
or MATH 263A Calculus 4
or MATH 266A* Calculus with Bio App 4

PHYS 201, 202 Intro to Physics 10
 PSY 221 Stat. for Behavioral Sci. 5

POLS 425 Environ. and Nat. Res. 4
 Politics and Policy
or POLS 426 Politics of Contemp. Env. 4
 Movements

*preferred math option

Recommended electives

ECON 103 Prin. of Microeconomics 4
 ECON 104 Prin. of Macroeconomics 4
 ECON 313 Econ. of the Environment 4
 BIOS 375 Animal Ecology 5
 BIOS 430 Invertebrate Biology 6
 BIOS 431 Limnology 5
 BIOS 435 Entomology 6
 BIOS 477 Population Ecology 4

BIOS 481	Animal Conservation Biol	4
GEOG 260	Maps	4
GEOG 302	Meteorology	5
GEOG 303	Climatology	5
GEOG 316	Biogeography	4
GEOG 353	Environmental Planning	4
GEOG 417	Landscape Ecology	4
GEOG 440	Environ. Impact Analysis	4
GEOG 447	Resource Management	4
GEOG 466	Remote Sensing	5

Arts and Sciences degree requirements (including language),
University General Education Requirements, and/or electives.