

ENVIRONMENTAL SCIENCE MAJOR

Requirements

Along with specific requirements for any major, all students in the Bachelor of Arts and Bachelor of Science degree programs must meet all general education (<https://catalog.wheaton.edu/undergraduate/academic-policies-information/academic-requirements-general-education/>) and graduation requirements (<https://catalog.wheaton.edu/undergraduate/academic-policies-information/academic-requirements-general-education/#text>) under a single catalog.

Students who complete an Environmental Science major are granted a Bachelor of Science degree unless they request a Bachelor of Arts degree.

Requirements for a major in Environmental Science include 40 core curriculum hours and a minimum of 12 elective hours:

Code	Title	Credits
Core Curriculum		
ENVR 212	The Dynamic Earth and Environment	4
or GEOL 212	The Dynamic Earth and Environment	
BIOL 242	Diversity of Life: An Introduction to Zoology and Botany	4
BIOL 243	Processes of Life: Ecology and Evolution	4
CHEM 231	General Chemistry I	4
ENVR 231	Environmental Law, Justice, and Development	2
ENVR 341	Quantitative Methods for Environmental Analysis and Problem Solving	4
ENVR 371	Introduction to Geographic Information Systems	2
HNGR 114	Poverty, Justice and Transformation	4
or URBN 114	Social Life of Cities	
ENVR 381	Environmental Pollution and Toxicology	4
ENVR 495	Environmental Science Research	2
or ENVR 496	Environmental Science Internship	
ENVR 494	Environmental Science Capstone	2
Select one approved field-intensive course (see list following electives below)		4
Total Credits		40

Code	Title	Credits
Electives		
Select a minimum of 12 credits of the following in consultation with the program director:		12
BIOL 241	Organization of Life: Genetics and Cell Biology	
BIOL 318	Global Health	
BIOL 334	Parasitology	
BIOL 335	Invertebrate Zoology	
BIOL 338	Economic Botany	
BIOL 339	Plant Physiology	
BIOL 343	Plant Taxonomy	
BIOL 348	Marine Biology	
BIOL 356	Genetics ¹	

BIOL 372	Field Zoology
BIOL 382	Field Natural History
CHEM 241	Principles of Organic Chemistry
CSCI 245	Programming II: Object-Oriented Design
ECON 212	Principles of Macroeconomics
ECON 365	Development Economics ²
ENVR 395	Independent Studies in Environmental Science
ENVR 422	Sustainable Agriculture
ENVR 432	Introduction to Environmental Engineering
GEOL 232	Environmental Geochemistry
GEOL 307	Water: the Essential Natural Resource
GEOL 308	Energy & Climate Change
GEOL 332	Studies In Regional Geology
GEOL 336	Process Geomorphology
GEOL 343	Fundamentals of Mineral Science
GEOL 344	Igneous and Metamorphic Petrology
GEOL 355	Introduction to Soil Science
GEOL 365	Physics of the Earth
GEOL 372	GIS Practicum
GEOL 412	Field Geology
GEOL 437	Hydrogeology
HNGR 381	Topics in Development
IR 318	Environmental Politics
MATH 364	Mathematical Modeling
PHYS 305	Dakota Skies: Astronomy and Atmospheric Science in the Black Hills
PSCI 386	Congress & Policy Process
URBN 233	Chicago

Total Credits 12

¹ Prerequisite BIOL 241, BIOL 242 and BIOL 252 or ENVR 341 with dept. approval.

² Prerequisite ECON 211 Principles of Microeconomics.

Approved Field Intensive Courses:

Wheaton College Science Station

Code	Title	Credits
BIOL 242	Diversity of Life: An Introduction to Zoology and Botany	4
BIOL 243	Processes of Life: Ecology and Evolution	4
BIOL 382	Field Natural History	4

Since BIOL 242 and BIOL 243 are also core requirements, if either is used to meet the field course core requirement, an additional four hours of elective coursework is needed to meet the 52 total credit hours required for the major.

International Sustainable Development Studies Institute

At this semester abroad program (<http://isdsi.org/>) student will take Agroecology, Political Ecology of Forests, and Islands, Oceans and Sustainability which fulfill field intensive requirements as well as 12 credits hours of environmental science major electives.

Au Sable Institute of Environmental Studies

Varies by year. Check program website (<https://www.ausable.org/>) for course listing. Fulfills field-intensive requirement with approval by Director of Environmental Science based on student's curricular goals.

Morton Arboretum

Varies by year. Check program website (<http://www.mortonarb.org/>) for current course listing. Fulfills field-intensive requirement with approval by Directory of Environmental Science based on student's curricular goals.

Woods Hole Marine Biological Station

Varies by year. Check program website (<http://www.mbl.edu/>) for course listing. Fulfills field-intensive requirement with approval by Director of Environmental Science based on student's curricular goals.