

Environmental Science Major

Area of Emphasis

Students must complete requirements in one of the following areas of emphasis:

- Environmental Science
 - Environmental Science (Accelerated) - Integrated with graduate Environmental Science & Policy program

General

Code	Title	Credits
Supporting Courses		33
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	
BIOLOGY 203 & BIOLOGY 204	Principles of Biology: Organisms and Evolution and Principles of Biology Lab: Organisms and Evolution	
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	
ENV SCI 102	Introduction to Environmental Sciences	
GEOG 250	Introduction to Geographic Information Systems (GIS)	
GEOSCI 202	Physical Geology	
MATH 260	Introductory Statistics	
Mathematics (choose one of the following courses):		
MATH 104	Precalculus	
MATH 202	Calculus and Analytic Geometry I	
MATH 203	Calculus and Analytic Geometry II	
Upper-Level Courses ¹		32
BIOLOGY 306	Principles of Ecology	
ENV SCI 305	Environmental Systems	
ENV SCI 336	Environmental Statistics	
ENV SCI 338	Environmental Modeling	
ENV SCI 339	Scientific Writing	
ENV SCI 467	Capstone in Environmental Science	
Elective Courses (choose 9 additional credits; no more than 6 credits from ENV SCI 497, 498, 499):		
any 300-level ENV SCI course		
any 400-level ENV SCI course		
BIOLOGY 310	Plant Biodiversity	
BIOLOGY 320	Field Botany	
BIOLOGY 322	Environmental Microbiology	
BIOLOGY 357	Marine Biology	
BIOLOGY 401	Fish and Wildlife Population Dynamics	
BIOLOGY 449	Wetland Ecology	
BIOLOGY 450	Ecological Restoration	
BIOLOGY 469	Conservation Biology	
BIOLOGY 499	Travel Course	
ET 424	Hazardous and Toxic Materials	
ET 464	Atmospheric Pollution and Abatement	
GEOSCI 325	Regional Climatology	
GEOSCI 402	Sedimentology & Stratigraphy	
GEOSCI 421	Geoscience Field Trip	
GEOSCI 432	Hydrogeology	

GEOSCI 470	Glacial Geology & Landscapes
PU EN AF 301 or PU EN AF 378	Environmental Politics and Policy Environmental Law
WATER 321	Stable Isotopes in the Environment
WATER 444	Geochemistry of Natural Waters

Total Credits **65**

¹ Students intending to pursue graduate study should include additional course work of at least one year of calculus, at least one year of physics, and upper-level courses in organic chemistry.

Environmental Science (Accelerated) - Integrated with graduate Environmental Science & Policy program

Code	Title	Credits
Supporting Courses		36
BIOLOGY 201 & BIOLOGY 202	Principles of Biology: Cellular and Molecular Processes and Principles of Biology Lab: Cellular and Molecular Processes	
BIOLOGY 203 & BIOLOGY 204	Principles of Biology: Organisms and Evolution and Principles of Biology Lab: Organisms and Evolution	
CHEM 211 & CHEM 213	Principles of Chemistry I and Principles of Chemistry I Laboratory	
CHEM 212 & CHEM 214	Principles of Chemistry II and Principles of Chemistry II Laboratory	
ENV SCI 102	Introduction to Environmental Sciences	
GEOG 250	Introduction to Geographic Information Systems (GIS)	
GEOSCI 202	Physical Geology	
MATH 260	Introductory Statistics	
Mathematics (choose one of the following courses):		
MATH 104	Precalculus	
MATH 202	Calculus and Analytic Geometry I	
MATH 203	Calculus and Analytic Geometry II	
Upper-Level Courses ¹		34
BIOLOGY 306	Principles of Ecology	
ENV SCI 305/505	Environmental Systems #	
ENV SCI 336	Environmental Statistics	
ENV SCI 338	Environmental Modeling	
ENV SCI 339	Scientific Writing	
ENV SCI 467	Capstone in Environmental Science	
Elective Courses (choose 9 credits):		
BIOLOGY 469/669	Conservation Biology #	
ENV SCI 301	Radioactivity: Past, Present, and Future	
ENV SCI 303	Environmental Sustainability	
ENV SCI 320/520	The Soil Environment	
ENV SCI/ET 330/ENV SCI 530	Hydrology #	
ENV SCI 335/535	Water and Waste Water Treatment #	
ENV SCI 337/537	Environmental GIS #	
ENV SCI 401/601	Stream Ecology #	
ENV SCI 403/603	Limnology #	
ENV SCI/ET 415/ENV SCI 615	Solar and Alternate Energy Systems #	
ENV SCI 424/624	Hazardous and Toxic Materials #	
ENV SCI 425/625	Global Climate Change #	
ENV SCI 433/633	Ground Water: Resources and Regulations #	
ENV SCI 460/660	Resource Management Strategy #	
ENV SCI 464/664	Atmospheric Pollution and Abatement #	

ENV SCI 491	Senior Thesis/Research in Environmental Science
ENV SCI 492	Practicum in Environmental Science
BIOLOGY 310/510	Plant Biodiversity
BIOLOGY 320/520	Field Botany
BIOLOGY 322/522	Environmental Microbiology
BIOLOGY 357/557	Marine Biology
BIOLOGY 401/601	Fish and Wildlife Population Dynamics
BIOLOGY 449/649	Wetland Ecology
BIOLOGY 450/650	Ecological Restoration
GEOSCI 402/696	Sedimentology & Stratigraphy
GEOSCI 421/621	Geoscience Field Trip #
GEOSCI 432/632	Hydrogeology
GEOSCI 470/670	Glacial Geology & Landscapes
WATER 444/644	Geochemistry of Natural Waters

Total Credits**70**

Students must be granted permission through the department to enroll in graduate level coursework. For more information, contact the Education office or refer to the graduate catalog (<http://catalog.uwgb.edu/archive/2023-2024/graduate/general-information/academic-rules-regulations/undergrad-in-accelerated/>).