

Geoscience Major

Area of Emphasis

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

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

General Geoscience

Code	Title	Credits
Supporting Courses		34
CHEM 211	Principles of Chemistry I	
CHEM 212	Principles of Chemistry II	
CHEM 213	Principles of Chemistry I Laboratory	
CHEM 214	Principles of Chemistry II Laboratory	
GEOSCI 202	Physical Geology	
GEOSCI 203	Earth System History	
GEOSCI 204	Earth System History Laboratory	
MATH 202	Calculus and Analytic Geometry I	
MATH 260	Introductory Statistics	
Physics (Choose one of the following combinations):¹		
PHYSICS 103 & PHYSICS 203	Fundamentals of Physics I and Introductory Physics Lab I	
PHYSICS 201 & PHYSICS 203	Principles of Physics I and Introductory Physics Lab I	
Upper-Level Courses		26
ENV SCI 320	The Soil Environment	
GEOSCI 340	Introduction to Mineralogy & Petrology	
GEOSCI 432	Hydrogeology	
Choose one:		
ENV SCI 330	Hydrology	
GEOSCI 402	Sedimentology & Stratigraphy	
Electives		
Choose 12 credits from the following courses:		
ENV SCI 330	Hydrology	
ENV SCI 337	Environmental GIS	
ENV SCI 425	Global Climate Change	
GEOSCI 301	Introduction to Geoscience Field Methods	
GEOSCI 350	Structural Geology and Tectonics	
GEOSCI 402	Sedimentology & Stratigraphy	
GEOSCI 421	Geoscience Field Trip ²	
GEOSCI 450	Ore Deposits	
GEOSCI 470	Glacial Geology & Landscapes	
GEOSCI 491	Senior Thesis/Research in Geoscience	
GEOSCI 492	Special Topics in Geoscience ²	
GEOSCI 498	Independent Study	
GEOSCI 499	Travel Course	
WATER 321	Stable Isotopes in the Environment	
WATER 444	Aqueous Geochemistry	

Total Credits

60

¹ Students who plan to attend graduate school are advised to take Physics 201/203 (calculus-based physics)

² Course topics vary. Offerings of different topics can be repeated for credit.

Geoscience Accelerated Emphasis - Integrated with graduate Environmental Science & Policy program

Code	Title	Credits
Supporting Courses		34
CHEM 211	Principles of Chemistry I	
CHEM 212	Principles of Chemistry II	
CHEM 213	Principles of Chemistry I Laboratory	
CHEM 214	Principles of Chemistry II Laboratory	
GEOSCI 202	Physical Geology	
GEOSCI 203	Earth System History	
GEOSCI 204	Earth System History Laboratory	
MATH 202	Calculus and Analytic Geometry I	
MATH 260	Introductory Statistics	
Physics (Choose one of the following combinations): ¹		
PHYSICS 103 & PHYSICS 203	Fundamentals of Physics I and Introductory Physics Lab I	
PHYSICS 201 & PHYSICS 203	Principles of Physics I and Introductory Physics Lab I	
Upper-Level Courses		26
ENV SCI 320/520	The Soil Environment [#]	
GEOSCI 340	Introduction to Mineralogy & Petrology	
GEOSCI 432/632	Hydrogeology [#]	
Choose one:		
ENV SCI 330	Hydrology	
GEOSCI 402/602	Sedimentology & Stratigraphy [#]	
Electives		
Choose 12 credits from the following courses:		
ENV SCI 330	Hydrology	
ENV SCI 337	Environmental GIS	
ENV SCI 425/625	Global Climate Change [#]	
GEOSCI 301	Introduction to Geoscience Field Methods	
GEOSCI 350	Structural Geology and Tectonics	
GEOSCI 402	Sedimentology & Stratigraphy	
GEOSCI 421/621	Geoscience Field Trip (Offerings of trip to different areas may be repeated for credit) [#]	
GEOSCI 450	Ore Deposits	
GEOSCI 470/670	Glacial Geology & Landscapes [#]	
GEOSCI 491	Senior Thesis/Research in Geoscience	
GEOSCI 492	Special Topics in Geoscience ²	
GEOSCI 498	Independent Study	
GEOSCI 499	Travel Course	
WATER 321	Stable Isotopes in the Environment	
WATER 444/644	Aqueous Geochemistry [#]	
Total Credits		60

[#] Students must be granted permission through the department to enroll in graduate level coursework. For more information, contact the graduate Environmental Science & Policy office or refer to the graduate catalog (<http://catalog.uwgb.edu/archive/2024-2025/graduate/general-information/academic-rules-regulations/undergrad-in-accelerated/>).

¹ Students who plan to attend graduate school are advised to take Physics 201/203 (calculus-based physics)

² Course topics vary. Offerings of different topics can be repeated for credit.