

GEOSCIENCES MAJOR (BS)

Department website (<https://www.uwp.edu/learn/programs/geosciencesmajor.cfm>)

College: College of Natural & Health Sciences

1. To prepare students for professional certification and employment in areas of environmental and earth sciences.
2. To promote scientific literacy on the campus and in the community, particularly with respect to principles and issues involving environmental awareness, quality, and protection.
3. To contribute fundamental scientific research that enhances environmental quality and quality-of-life for members of the regional, state, local and campus communities

Requirements for the Geosciences Major

The geosciences major requires a selection of core courses and courses in a concentration. Students select one of two concentrations: environmental geosciences or earth science.

Code	Title	Credits
College of Natural and Health Sciences requirement		
New entering students, and transfer students with less than 30 college credits, choosing a major in the College of Natural and Health Sciences are required to take this course.		
UWP 101	First Year Seminar: Natural and Health Sciences	1
Required Core Courses		
GEOS 102	Origin and History of the Earth	3
GEOS 104	Introductory Geology Laboratory	2
GEOS 200	Minerals and Rocks	4
GEOS 330	Environmental Geology	4
GEOS 355	Stratigraphy and Sedimentation	4
GEOS 445	Environmental Sampling, Monitoring, and Assessment	4
GEOS 495	Senior Seminar	1
GEOS 496	Geoscience Applications	3
Required Core Courses Subtotal		26
Concentration Courses		
Choose one concentration		43-50
Concentration Courses Subtotal		43-50
Total Credits		69-76

Concentration Options

Environmental Geosciences Concentration

Code	Title	Credits
GEOS 101	Introductory Geology	3
GEOS 106	Great Lakes Water Resources	3
or ENVS 109	Fundamentals of Climate Change	
GEOS 331	Introduction to Geochemistry	3
GEOS 345	Geophysics	3
GEOS 361	Hydrogeology	3
GEOS 431	Aqueous and Contaminant Geochemistry	4
GEOS 470	Remediation Science and Technology	3
GEOS 465	Applied Hydrogeology	4

MATH 112 & MATH 113	College Algebra II and Trigonometry	5-6
or MATH 114	College Algebra II/Trigonometry	
MATH 221	Calculus and Analytic Geometry I	5
CHEM 101	General Chemistry I	4
CHEM 102	General Chemistry II	4
CHEM 103	General Chemistry Lab I	1
CHEM 104	General Chemistry Lab II	1
PHYS 101	Principles of Physics	4
Total Credits		50-51

Earth Science Concentration

Code	Title	Credits
Required Courses		
Select one of the following:		3
GEOS 100	Earth in Perspective	
GEOS 101	Introductory Geology	
ENVS 101	Introduction to Environmental Studies	
GEOS 106	Great Lakes Water Resources	3
ENVS 109	Fundamentals of Climate Change	3
GEOS 301	Geomorphology	4
GEOS 320	Soils, Weathering and Surficial Processes	4
GEOS 420	Glacial Geology	4
ENVS 335	Energy	4
CHEM 100	The World of Chemistry	3
or ENVS 102	Chemistry of the Environment	
MATH 102	Quantitative Reasoning	4
or MATH 103	Elementary Statistics	
Required Courses Subtotal		32
Elective Courses		
Select twelve credits of elective courses ¹		12
Elective Courses Subtotal		12
Total Credits		44

¹ Supporting courses must be 300 and above and at least six credits must be geoscience credits.

General University Degree Requirements (Bachelor's Degree)

In addition to individual program requirements, students must also fulfill the following requirements:

Requirement	Credits
Skills	7-8
General Education	36
Foreign Language**	6-8
Ethnic Diversity	3
Total	52-55

** Transfer students in sustainable management, and health information management and technology collaborative, online degree-completion programs, the business management online degree-completion program, and the flexible option degree-completion program will be exempt from

the university's foreign language requirement. See appropriate academic section for further information.

Skills Requirement (<https://catalog.uwp.edu/policies/#skills>)

Code	Title	Credits
Reading and Writing		
ENGL 101	Composition and Reading	3
Computational Skills		
Select one of the following:		4-5
MATH 102	Quantitative Reasoning	
MATH 103	Elementary Statistics	
MATH 104	College Mathematics with Applications	
MATH 111	College Algebra I	
Total Credits		7-8

General Education (<https://catalog.uwp.edu/policies/#general>)

- General Education Course List (<https://catalog.uwp.edu/programs/general-education-program/#coursestext>)

Foreign Language (<https://catalog.uwp.edu/policies/#language>)

Ethnic Diversity (<https://catalog.uwp.edu/policies/#ethnic>)

Degree Requirements

Requirement	Credits
Minimum Total Credits	120
Upper Level Credits (300 level or above)	36
Residency	30

Cumulative Degree GPA: 2.0 minimum

Course	Title	Credits
Year 1		
Fall Semester		
MATH 102	Quantitative Reasoning	4
ENGL 100	Fundamentals of English	3
Introductory Language		4
COMM 107	Communication and the Human Condition	3
Credits		14
Spring Semester		
ENGL 101	Composition and Reading	3
COMM 105 or COMM 205	Public Speaking for the 21st Century or Oral Interpretation	3
COMM 108	Media and Society	3
Introductory Language		4
Credits		13
Total Credits		27