

# GEOSCIENCES MAJOR (BS)

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

College: College of Natural & Health Sciences

## 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
<b>College of Natural and Health Sciences requirement</b>		
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
<b>Required Core Courses</b>		
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
<b>Concentration Courses</b>		
Choose one concentration		43-50
Concentration Courses Subtotal		43-50
<b>Total Credits</b>		<b>69-76</b>

## 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
<b>Total Credits</b>		<b>50-51</b>

### Earth Science Concentration

Code	Title	Credits
<b>Required Courses</b>		
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	Survey of Mathematics	4
or MATH 103	Elementary Statistics	
Required Courses Subtotal		32
<b>Elective Courses</b>		
Select twelve credits of elective courses <sup>1</sup>		12
Elective Courses Subtotal		12
<b>Total Credits</b>		<b>44</b>

<sup>1</sup>

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
<b>Reading and Writing</b>		
ENGL 101	Composition and Reading	3
<b>Computational Skills</b>		
Select one of the following:		4-5

MATH 102 Survey of Mathematics

MATH 103 Elementary Statistics

MATH 104 Quantitative Reasoning

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 of final 60

Cumulative Degree GPA: 2.0 minimum