

# GEOLOGY COMPREHENSIVE MAJOR: GEOARCHAEOLOGY EMPHASIS

## Program Requirements

The Geoarchaeology Emphasis requires a minimum of 64 credits:

Code	Title	Credits
GEOL 101	Physical Geology (GT-SC2)	3
or GEOL 103	Earth and Energy Systems	
GEOL 105	Physical Geology Laboratory (GT-SC1)	1
GEOL 201	Historical Geology (with laboratory)	4
GEOL 302	Geoscience Writing	2
GEOL 310	Stratigraphy and Sedimentation (with laboratory)	4
GEOL 315	Earth Materials (with laboratory)	4
GEOL 320	Geomorphology (with laboratory)	4
GEOL 345	Structural Geology (with laboratory)	4
GEOL 380	Paleoclimatology	3
GEOL 450	Field Geology	4

### Required Supporting Courses

ANTH 107	Introduction to General Anthropology	3
ANTH 218	Biological Anthropology (with laboratory)	4
ANTH 219	Archaeology (with laboratory)	4
ANTH 230	Cultural Anthropology (with laboratory)	4
GEOG 340	Intro Geographic Info Systems	3

Select two of the following: 7-8

ANTH 322		
ANTH 333	North American Archaeology	
ANTH 366	Maya Archaeology	
ANTH 377	Cultural Resource Management	
ANTH 469	Archaeology Field School	

Select one of the following: 3-4

CHEM 101	Introduction to Inorganic Chemistry (GT-SC2)	
CHEM 111	General Chemistry I (GT-SC2)	
& CHEM 112	and General Chemistry Laboratory I (GT-SC1)	

One of the following: 3

MATH 113	Statistical Thinking (GT-MA1)	
MATH 213	Probability and Statistics (GT-MA1)	

**Total Credits 64-66**

## Capstone Course Requirement

GEOL 450 Field Geology

## Graduation Requirements

Undergraduate programs require a minimum of 120 semester credits for graduation. Of those 120 credits, 40 credits must be in upper-division courses (those marked 300 and above). Fifteen of these 40 upper-division credits must be earned in courses that are part of the standard or comprehensive major program being pursued.

Students are expected to review all graduation requirements, which can be found in the Western Undergraduate Catalog: Graduation

Requirements (<https://catalog.western.edu/undergraduate/graduation-requirements/>).

Course	Title	Credits
<b>Year One</b>		
<b>Fall</b>		
CHEM 111	General Chemistry I (GT-SC2)	3
CHEM 112	General Chemistry Laboratory I (GT-SC1)	1
GEOL 101	Physical Geology (GT-SC2)	3
GEOL 105	Physical Geology Laboratory (GT-SC1)	1
HWTR 100	First Year Seminar	1
MATH 141	Precalculus (GT-MA1) (or higher, depending on MATH placement) <sup>1</sup>	4
Gen Ed	General Education Courses	3
		<b>Credits 16</b>
<b>Spring</b>		
ENG 102	Writing and Rhetoric I (GT-CO1)	3
GEOL 201	Historical Geology (with laboratory)	4
MATH 113	Statistical Thinking (GT-MA1)	3
ANTH 107	Introduction to General Anthropology	3
		<b>Credits 13</b>
<b>Year Two</b>		
<b>Fall</b>		
ANTH 218	Biological Anthropology (with laboratory)	4
GEOL 302	Geoscience Writing	2
GEOL 310	Stratigraphy and Sedimentation (with laboratory)	4
Elective	Elective	6
		<b>Credits 16</b>
<b>Spring</b>		
ANTH 230	Cultural Anthropology (with laboratory)	4
ENG 103	Writing and Rhetoric II (GT-CO2)	3
GEOL 315	Earth Materials (with laboratory)	4
Gen Ed	General Education Courses	3
		<b>Credits 14</b>
<b>Year Three</b>		
<b>Fall</b>		
GEOL 345	Structural Geology (with laboratory)	4
Gen Ed	General Education Courses	6
GEOL 320	Geomorphology (with laboratory)	4
ANTH 219	Archaeology (with laboratory)	4
		<b>Credits 18</b>
<b>Spring</b>		
Elective	Elective	4
Gen Ed	General Education Courses	6
ANTH 333	North American Archaeology	3
GEOG 340	Intro Geographic Info Systems	3
		<b>Credits 16</b>
<b>Summer</b>		
GEOL 450	Field Geology	4
		<b>Credits 4</b>
<b>Year Four</b>		
<b>Fall</b>		
Elective	Electives	12
ANTH 322		4
		<b>Credits 16</b>
<b>Spring</b>		
GEOL 380	Paleoclimatology	3
Elective	Electives	9
		<b>Credits 12</b>
		<b>Total Credits 125</b>

2 Geology Comprehensive Major: Geoarchaeology Emphasis

<sup>1</sup> Geology requires completion of mathematics through Calculus II. Additional mathematics courses may be required and would fill Elective courses as needed.