

GEOLOGY, BACHELOR OF SCIENCE IN GEOLOGY

Minimum Total Credit Hours: 121
Minimum Upper-Division Hours: 48
Overall GPA - Combined and OU: 2.50
Major GPA - Combined and OU: 2.50

Program Code: B475

Students who have not completed two years of the same foreign language in high school are required to take two college courses in the same foreign language. This additional coursework may add 6-10 hours to the minimum hours required for graduation.

In order to progress in your curriculum, and as a specific graduation requirement, a grade of C or better is required in each course listed in this curriculum. Students must also successfully complete all prerequisite courses with a grade of C or better before proceeding to the next course.

Course	Title	Credit Hours
Freshman		
First Semester		
ENGL 1113	Principles of English Composition (Core I)	3
MATH 1914	Differential and Integral Calculus I (Core I) ¹	4
CHEM 1315	General Chemistry (Core II) ²	5
GEOL 1114	Physical Geology for Science and Engineering Majors	4
Credit Hours		16
Second Semester		
ENGL 1213 or EXPO 1213	Principles of English Composition (Core I) or Expository Writing	3
MATH 2924	Differential and Integral Calculus II ¹	4
CHEM 1415	General Chemistry (Continued) ²	5
GEOL 1124	Earth History	4
Credit Hours		16
Sophomore		
First Semester		
MATH 2934	Differential and Integral Calculus III ¹	4
HIST 1483 or HIST 1493	United States, 1492 to 1865 (Core IV) or United States, 1865 to the Present	3
GEOL 2224	Introduction to Mineral Sciences	4
General Education Understanding Artistic Forms (Core IV) ³		3
Credit Hours		14
Second Semester		
PHYS 2514	General Physics for Engineering and Science Majors (Core II)	4
GEOL 3223	Igneous and Metamorphic Petrology	3
GEOL 3233	Sedimentary Petrology and Sedimentology	3
Free Elective ⁴		3
Credit Hours		13

Junior		
First Semester		
PHYS 2524	General Physics for Engineering and Science Majors	4
GEOL 3114	Structural Geology	4
GEOL 3513	Fundamentals of Invertebrate Paleontology	3
Free Elective ⁴		3
Credit Hours		14
Second Semester		
P SC 1113	American Federal Government (Core III)	3
Free Elective ⁴		3
Science Elective (not Geology) ⁵		3
General Education Social Science (Core III) ³		3
General Education Western Civilization & Culture (Core IV) ³		3
Credit Hours		15
Senior		
First Semester		
ENGL 3153 or GEOL 3333	Technical Writing ⁶ or Geowriting	3
GEOL 4113	Depositional Systems and Stratigraphy	3
Choose one of the following (see note below): ⁷		3
GPHY 4413	Global Geophysics	
GEOL 4223	Principles of Geochemistry (Slashlisted with 5223)	
Geology/Geophysics Elective (upper-division)		3
Science Elective (outside the College) ⁵		3
Credit Hours		15
Second Semester		
GEOL 3123	Introductory Field Geology	3
Free Elective ⁴		3
Science Elective (outside the major) ⁵		3
General Education Non-Western Culture (Core IV) ³		3
Credit Hours		12
Summer		
GEOL 4136	Field Geology (Capstone)	6
Credit Hours		6
Total Credit Hours		121

¹ MATH 1823, MATH 2423, MATH 2433, and MATH 2443 may be substituted for MATH 1914, MATH 2924 and MATH 2934.
² CHEM 1335 and CHEM 1435 may be substituted for CHEM 1315 and CHEM 1415.
³ To be chosen from the University-Wide General Education Approved Course List. Three hours of General Education must be upper-division outside the major.
⁴ Twelve hours of electives. Foreign language courses taken to satisfy University-Wide General Education requirements may be counted as lower-division free electives. However, in order to satisfy the college requirement of 48 hours of upper-division coursework, five hours of free electives and/or humanities/social sciences must be taken as upper-division.

⁵ A minimum of 9 hours of faculty advisor approved courses in geophysics, geography, meteorology, biological sciences, chemistry, computer science, mathematics, physics, and/or engineering. Six hours must be upper-division (3000-4000-level) and three hours must be outside the College of Earth and Energy.

⁶ GEOL 3333 is taught on an irregular basis and may be substituted for ENGL 3153.

⁷ Only one of the following courses is required. GPHY 4413 is taught fall semesters; GEOL 4223 is taught alternate spring semesters.