

**REQUIREMENTS FOR THE BACHELOR OF SCIENCE IN GEOLOGY**  
**COLLEGE OF EARTH AND ENERGY**  
**THE UNIVERSITY OF OKLAHOMA**

For Students Entering the Oklahoma State System for Higher Education  
**Summer 2013 through Spring 2014**

GENERAL REQUIREMENTS	
Total Credit Hours . . . . .	<b>125*</b>
Total Upper-Division Credit Hours . . . . .	<b>48</b>
<b>Minimum Retention/Graduation Grade Point Averages:</b>	
Minimum in OU Coursework . . . . .	<b>2.50</b>
Minimum in Major Coursework- Combined and OU . . . . .	<b>2.50</b>
Overall - Combined and OU . . . . .	<b>2.50</b>

**Geology**

**B475**

Bachelor of Science  
in Geology

**OU encourages students to complete at least 32 hours of applicable coursework each year to have the opportunity to graduate in four years.**

Year	FIRST SEMESTER	Hours	SECOND SEMESTER	Hours
<b>FRESHMAN</b>	<b>ENGL 1113</b> , Principles of English Composition (Core I)	3	<b>ENGL 1213</b> , Principles of English Composition (Core I), <b>or</b>	3
	<b>MATH 1914</b> , Differential and Integral Calculus I (Core I)§	4	<b>EXPO 1213</b> , Expository Writing (Core I)	4
	<b>CHEM 1315</b> , General Chemistry (Core II)	5	<b>MATH 2924</b> , Differential and Integral Calculus II§	4
	<b>GEOL 1114</b> , Physical Geology for Science and Engineering Majors	4	<b>CHEM 1415</b> , General Chemistry (Continued)	5
			<sup>5</sup> <b>GEOL</b> Elective	3
	<b>TOTAL CREDIT HOURS</b>	<b>16</b>	<b>TOTAL CREDIT HOURS</b>	<b>15</b>
<b>SOPHOMORE</b>	<b>MATH 2934</b> , Differential and Integral Calculus III§	4	<b>PHYS 2514</b> , General Physics for Engineering and Science Majors (Core II)	4
	<b>HIST 1483</b> or <b>1493</b> , U.S. (Core IV)	3	<b>GEOL 3223</b> , Igneous and Metamorphic Petrology	3
	<b>GEOL 2224</b> , Introduction to Mineral Sciences	4	<b>GEOL 3233</b> , Sedimentary Petrology and Sedimentology	3
	<sup>2</sup> General Education Understanding Artistic Forms (Core IV)	3	<sup>1</sup> Free Elective	3
	<b>TOTAL CREDIT HOURS</b>	<b>14</b>	<b>TOTAL CREDIT HOURS</b>	<b>13</b>
<b>JUNIOR</b>	<b>PHYS 2524</b> , General Physics for Engineering & Science Majors	4	<b>P SC 1113</b> , American Federal Government (Core III)	3
	<b>GEOL 3114</b> , Structural Geology	4	<sup>1</sup> Free Elective	3
	<b>GEOL 3513</b> , Invertebrate Paleontology	3	<sup>3</sup> Science Elective (not Geology)	3
	<sup>1</sup> Free Elective	3	<sup>2</sup> General Education Social Science (Core III)	3
			<sup>2</sup> General Education Western Civilization & Culture (Core IV)	3
	<b>TOTAL CREDIT HOURS</b>	<b>14</b>	<b>TOTAL CREDIT HOURS</b>	<b>15</b>
<b>SENIOR</b>	<b>ENGL 3153</b> , Technical Writing, <b>or</b>	3	<b>GEOL 3123</b> , Introductory Field Geology	3
	<sup>6</sup> <b>GEOL 3333</b> , Geowriting	3	<sup>1</sup> Free Elective	4
	<b>GEOL 4113</b> , Depositional Systems & Stratigraphy	3	<sup>1</sup> Free Elective	4
	<sup>7</sup> One of the following: (see note below)	3	<sup>3</sup> Science Elective (outside the major)	3
	<b>GPHY 4413</b> , Global Geophysics	3	<sup>2</sup> General Education Non-Western Culture (Core IV)	3
	<b>GEOL 4223</b> , Principles of Geochemistry	3		
	Geology/Geophysics Elective (upper-division)	3		
<sup>3</sup> Science Elective (outside the College)	3			
	<b>TOTAL CREDIT HOURS</b>	<b>15</b>	<b>TOTAL CREDIT HOURS</b>	<b>17</b>
	<b>SUMMER</b>		<b>GEOL 4136</b> , Field Geology (Capstone)— <b>6 CREDIT HOURS</b>	

- \* = 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 major course. The requirement includes both Geology (GEOL) and Geophysics (GPHY) courses. Students must also successfully complete **major** prerequisite courses with a grade of C or better before proceeding to the next course.
- <sup>1</sup> = Seventeen 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.
- <sup>2</sup> = To be chosen from the University-Wide General Education Approved Course List. Three hours of general education must be upper-division outside the major.
- <sup>3</sup> = A minimum of 9 hours of faculty-adviser-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.
- <sup>5</sup> = One Geology course from the following: 1003, 1013, 1024, 1133, 3154, 3633, 4213, 4533, or other non-required geology courses as approved by adviser (notation must be placed on Degree Navigator). Upper-division courses require additional prerequisites.
- <sup>6</sup> = GEOL 3333 is taught on an irregular basis and may be substituted for ENGL 3513, Technical Writing.
- <sup>7</sup> = Only one of the following courses is required. GPHY 4413 is taught alternate fall semesters; GEOL 4223 is taught alternate spring semesters.
- § = MATH 1823, 2423, 2433, and 2443 may be substituted for MATH 1914, 2924, and 2934.

**University-Wide General Education Requirements (minimum 40 hours)**

Courses designated as Core I, II, III, IV, or Capstone are part of the General Education curriculum. Students must complete a minimum of 40 hours of General Education courses, chosen from the approved list, including at least one upper-division Gen. Ed. course outside of the student's major. Courses graded S/U or P/NP will not apply.

<b>Core I</b>	<b>Symbolic and Oral Communication (9–19 hours, 3–5 courses)</b> <ul style="list-style-type: none"> <li>• English Composition—6 hours, 2 courses</li> <li>• Mathematics—3 hours, 1 course</li> <li>• Foreign Language—0–10 hours, 2 courses in the same language, (can be met by successfully completing 2 years of the same foreign language in high school)</li> <li>• Other (courses such as communication, logic or public speaking)</li> </ul>
<b>Core II</b>	<b>Natural Science (7 hours, 2 courses)</b> <ul style="list-style-type: none"> <li>• Courses must be taken from different disciplines in the biological and/or physical sciences; one of which must include a laboratory.</li> </ul>
<b>Core III</b>	<b>Social Science (6 hours, 2 courses)</b> <ul style="list-style-type: none"> <li>• One course must be P SC 1113, "American Federal Government"</li> </ul>
<b>Core IV</b>	<b>Humanities (12 hours, 4 courses)</b> <ul style="list-style-type: none"> <li>• Understanding Artistic Forms—3 hours, 1 course</li> <li>• Western Civilization and Culture—6 hours, 2 courses, including HIST 1483 or HIST 1493</li> <li>• Non-Western Cultures—3 hours, 1 course</li> </ul>
<b>Senior Capstone Experience (3 hours, 1 course)</b>	