

**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 2010 through Spring 2011**

GENERAL REQUIREMENTS	
Total Credit Hours . . . . .	127•
Total Upper-Division Credit Hours . . . . .	48
<b>Minimum Retention/Graduation Grade Point Averages:</b>	
Minimum in OU Coursework . . . . .	2.00
Minimum in Major Coursework- Combined and OU . . . . .	2.00
Overall - Combined and OU . . . . .	2.00

**Paleontology**  
**B760**  
 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>	ENGL 1113, Principles of English Composition (Core I)	3	ENGL 1213, Principles of English Composition (Core I), or	3
	MATH 1823, Calculus & Analytic Geometry I (Core I)	3	EXPO 1213, Expository Writing (Core I)	
	CHEM 1315, General Chemistry (Core II)	5		
	GEOL 1114, Physical Geology for Science and Engineering Majors	4	MATH 2423, Calculus & Analytic Geometry II	3
			CHEM 1415, General Chemistry (Continued)	5
			<sup>6</sup> GEOL Elective	3-4
	<b>TOTAL CREDIT HOURS</b>	<b>15</b>	<b>TOTAL CREDIT HOURS</b>	<b>14-15</b>
<b>SOPHOMORE</b>	MATH 2433, Calculus & Analytic Geometry III	3	MATH 2443, Calculus & Analytic Geometry IV	3
	HIST 1483 or 1493, U.S. (Core IV)	3	PHYS 2514, General Physics for Engineering and Science Majors (Core II)	4
	GEOL 2224, Introduction to Mineral Sciences	4	GEOL 3233, Sedimentary Petrology and Sedimentology	3
	ZOO 1114, Introductory Zoology	4	P SC 1113, American Federal Government (Core III)	3
	<sup>1</sup> General Education Understanding Artistic Forms (Core IV)	3	ZOO 1121, Introductory Zoology Laboratory	1
	<b>TOTAL CREDIT HOURS</b>	<b>17</b>	<b>TOTAL CREDIT HOURS</b>	<b>14</b>
<b>JUNIOR</b>	PHYS 2524, General Physics for Engineering and Science Majors	4	GEOL 3223, Igneous and Metamorphic Petrology	3
	<sup>2</sup> ZOO 3013, Evolution	3	<sup>4</sup> GEOL 4513, Evolutionary Paleobiology	3
	GEOL 3114, Structural Geology	4	<sup>4</sup> GEOL 4413, Paleobotany	3
	GEOL 3513, Invertebrate Paleontology	3	<sup>1</sup> General Education Social Science (Core III)	3
			<sup>1</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>	ENGL 3153, Technical Writing	3	GEOL 3123, Introductory Field Geology	3
	GEOL 4113, Depositional Systems & Stratigraphy	3	<sup>2</sup> ZOO 3403, Principles of Ecology	3
	<sup>5</sup> C S 1313, Programming for Non-Majors	3	<sup>4</sup> ZOO 5204, Vertebrate Paleobiology	4
	<sup>7</sup> One of the following: (see note below)	3	<sup>3</sup> Free Elective	3-4
	GPHY 4413, Global Geophysics		<sup>1</sup> General Education Non-Western Culture (Core IV)	3
	GEOL 4223, Principles of Geochemistry			
<sup>2</sup> Science Elective	3			
	<b>TOTAL CREDIT HOURS</b>	<b>15</b>	<b>TOTAL CREDIT HOURS</b>	<b>16-17</b>

**SUMMER**      **GEOL 4136, Field Geology (Capstone)—6 CREDIT HOURS**

- = 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> = 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>2</sup> = Nine hours of science electives are required; six of those hours must be upper-division (ZOO 3013 and ZOO 3403 satisfy these); three must be a faculty-adviser-approved geography, geophysics, or meteorology elective outside the major (senior year science elective can be lower-division).
  - <sup>3</sup> = Three hours of faculty-adviser-approved elective outside the major.
  - <sup>4</sup> = GEOL 4413, 4513 and ZOO 5204 are taught in alternate years and specific semesters. Students should plan their coursework with this in mind so that graduation problems do not arise. The order in which these courses are taken must be approved by faculty adviser.
  - <sup>5</sup> = This course fulfills the Computer Literacy Requirement for graduation as required by the Oklahoma State Regents for Higher Education.
  - <sup>6</sup> = One Geology course from the following: 1003, 1013, 1024, 1133, 1203, 3633, 4213, 4533, or other non-required courses as approved by adviser. Upper-division courses require additional prerequisites.
  - <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.
- NOTE:** No more than 52 hours of Geology coursework may be taken to fulfill the 127 minimum total credit hours required. Students must complete 36 of the last 60 credit hours in residence.

**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>	