

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

Academic Year
For Students Entering the Oklahoma State System for Higher Education Summer 2020 through Spring 2021

General Requirements	
Minimum Total Credit Hours .....	121
Minimum Upper-Division Hours .....	47
<b>Minimum Retention/Graduation Grade Point Averages:</b>	
Overall - Combined and OU .....	2.50
Major - Combined and OU .....	2.50

Program
<b>Environmental Geology</b>
<b>B395</b>
Bachelor of Science

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

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.

To obtain an Environmental Geology B.S., a student must take the same coursework as for the Geology B.S. except for 16 hours of geology/geophysics and allied science electives which are more narrowly specified. The student must satisfy 6 hours of geology/geophysics and allied science elective requirements by taking an upper-division GEOL/GPHY elective and GEOL 4633. The student must also satisfy 9 additional hours of allied science elective requirements chosen from an approved course list.

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 the curriculum. Students must also successfully complete all prerequisite courses with a grade of C or better before proceeding to the next course.

Year	FIRST SEMESTER		Hours	SECOND SEMESTER		Hours
<b>FRESHMAN</b>	ENGL 1113	Principles of English Composition ( Core I )	3	ENGL 1213 or EXPO 1213	Principles of English Composition ( Core I ) or Expository Writing	3
	MATH 1914	Differential and Integral Calculus I ( Core I ) <sup>1</sup>	4	MATH 2924	Differential and Integral Calculus II <sup>1</sup>	4
	CHEM 1315	General Chemistry ( Core II ) <sup>2</sup>	5	CHEM 1415	General Chemistry (Continued) <sup>2</sup>	5
	GEOL 1114	Physical Geology for Science and Engineering Majors	4	GEOL 1124	Earth History	4
	<b>CREDIT HOURS</b>		<b>16</b>	<b>CREDIT HOURS</b>		<b>16</b>
<b>SOPHOMORE</b>	MATH 2934	Differential and Integral Calculus III <sup>1</sup>	4	PHYS 2514	General Physics for Engineering and Science Majors ( Core II )	4
	HIST 1483 or HIST 1493	United States to 1865 ( Core IV ) or United States, 1865 to the Present	3	GEOL 3223	Igneous and Metamorphic Petrology	3
	GEOL 2224	Introduction to Mineral Sciences	4	GEOL 3233	Sedimentary Petrology and Sedimentology <sup>2</sup>	3
		General Education Understanding Artistic Forms (Core IV) <sup>3</sup>	3		Free Elective <sup>4</sup>	3
	<b>CREDIT HOURS</b>		<b>14</b>	<b>CREDIT HOURS</b>		<b>13</b>
<b>JUNIOR</b>	PHYS 2524	General Physics for Engineering and Science Majors	4	P SC 1113	American Federal Government ( Core III )	3
	GEOL 3114	Structural Geology	4		Free Elective <sup>4</sup>	3
	GEOL 3513	Fundamentals of Invertebrate Paleontology	3		Science Elective (not Geology) <sup>5</sup>	3
		Free Elective <sup>4</sup>	3		General Education Social Science (Core III) <sup>3</sup>	3
				General Education Western Civilization & Culture (Core IV) <sup>3</sup>	3	
	<b>CREDIT HOURS</b>		<b>14</b>	<b>CREDIT HOURS</b>		<b>15</b>
<b>SENIOR</b>	ENGL 3153 or GEOL 3333	Technical Writing 6 or Geowriting <sup>6</sup>	3	GEOL 3123	Introductory Field Geology	3
	GEOL 4113	Depositional Systems and Stratigraphy	3		Geology/Geophysics Elective (upper-division)	3
	GEOL 4633	Hydrogeology	3		Science Elective (outside the major) <sup>5</sup>	3
		Choose one of the following (see note below): <sup>7</sup>	3		General Education Non-Western Culture (Core IV) <sup>3</sup>	3
	GPHY 4413	Global Geophysics				
	GEOL 4223	Principles of Geochemistry (Slashlisted with 5223)				
		Science Elective (outside the College) <sup>5</sup>	3			
		<b>CREDIT HOURS</b>		<b>15</b>	<b>CREDIT HOURS</b>	
	<b>SUMMER</b>					
GEOL 4136	Field Geology ( Capstone )	6				
	<b>CREDIT HOURS</b>		<b>6</b>			

<sup>1</sup> MATH 1823, MATH 2423, MATH 2433, and MATH 2443 may be substituted for MATH 1914, MATH 2924 and MATH 2934.

<sup>2</sup> CHEM 1335 and CHEM 1435 may be substituted for CHEM 1315 and CHEM 1415.

<sup>3</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>4</sup> Nine hours of electives. Foreign language courses taken to satisfy University-Wide Gen. Ed. requirements may be counted as lower-division free electives.

<sup>5</sup> A minimum of 9 hours of faculty advisor approved courses in geophysics, geography, meteorology, biological sciences, chemistry, computer science, math, 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>6</sup> GEOL 3333 is taught on an irregular basis and may be substituted for ENGL 3513.

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