

**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 <b>Summer 2020 through Spring 2021</b>

General Requirements	
Minimum Total Credit Hours .....	<b>122</b>
Minimum Upper-Division Hours .....	<b>48</b>
<b>Minimum Retention/Graduation Grade Point Averages:</b>	
Overall - Combined and OU .....	<b>2.50</b>
Major - Combined and OU .....	<b>2.50</b>

Program
<b>Petroleum Geology</b>
<b>B770</b>
Bachelor of Science

OU encourages students to complete at least 31 hours of applicable coursework each year to have the opportunity to graduate in 4 years.

Students who have not completed two years of the same foreign language courses 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.

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	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		General Education Social Science (Core III) <sup>3</sup>	3
		Choose one of the following (see note below): <sup>5</sup>	3		General Education Western Civilization & Culture (Core IV) <sup>3</sup>	3
	GPHY 4413	Global Geophysics			Science Elective (outside the major) <sup>6</sup>	3
	GEOL 4223	Principles of Geochemistry (Slashlisted with 5223)				
<b>CREDIT HOURS</b>		<b>14</b>	<b>CREDIT HOURS</b>		<b>15</b>	
<b>SENIOR</b>	ENGL 3153 or GEOL 3333	Technical Writing <sup>7</sup> or Geowriting <sup>7</sup>	3	GEOL 3123	Introductory Field Geology	3
	GEOL 4113	Depositional Systems and Stratigraphy	3	GEOL 4233	Subsurface Methods	3
	GEOL 4133	Petroleum Geology for Geoscientists	3		Science Elective (outside the major) <sup>6</sup>	3
	GPHY 4874	Seismic Exploration	4		Science Elective (outside the major) <sup>6</sup>	3
	<b>CREDIT HOURS</b>		<b>13</b>	<b>CREDIT HOURS</b>		<b>15</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> Six hours of electives. Foreign Language courses taken to satisfy University-Wide General Education Requirements may be counted as lower-division free electives.

<sup>5</sup> Only one of the following courses is required. GPHY 4413 is taught alternate fall semesters; GEOL 4223 is taught alternate spring semesters.

<sup>6</sup> A minimum of 9 hours of upper-division science electives. Courses must be chosen from Petroleum Engineering; Meteorology; Geography, Environmental Sustainability & GIS; Anthropology (including archaeology); Biology; Chemistry & Biochemistry; Mathematics; Physics & Astronomy; Civil Engineering & Environmental Science; Chemical, Biological or Materials Engineering; and Computer Science.

<sup>7</sup> GEOL 3333 is taught on an irregular basis and may be substituted for ENGL 3513.