

**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 .....	126
Minimum Upper-Division Hours .....	48
<b>Minimum Retention/Graduation Grade Point Averages:</b>	
Overall - Combined and OU .....	2.50
Major - Combined and OU .....	2.50

Program
<b>Geophysics</b>
<b>B481</b>
Bachelor of Science

OU encourages students to complete at least 32 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 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 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	HIST 1483 or HIST 1493	United States to 1865 ( Core IV ) or United States, 1865 to the Present	3
	PHYS 2514	General Physics for Engineering and Science Majors ( Core II )	4	PHYS 2524	General Physics for Engineering and Science Majors	4
	C S 1313	Programming for Non-Majors with C	3	P SC 1113	American Federal Government ( Core III )	3
	GEOL 2224	Introduction to Mineral Sciences	4	GEOL 3233	Sedimentary Petrology and Sedimentology	3
		General Education Western Civilization & Culture (Core IV) <sup>3</sup>	3		General Education Understanding Artistic Forms (Core IV) <sup>3</sup>	3
<b>CREDIT HOURS</b>		<b>18</b>	<b>CREDIT HOURS</b>		<b>16</b>	
<b>JUNIOR</b>	MATH 3113	Introduction to Ordinary Differential Equations	3	PHYS 3043	Physical Mechanics I	3
	GEOL 3114	Structural Geology	4		Geology Math Elective (upper-division)	3
	GPHY 4413	Global Geophysics	3		Geophysics Elective (upper-division)	3
		Physics Elective (upper-division)	3		Geology Elective (upper-division)	3
					General Education Social Science (Core III) <sup>3</sup>	3
<b>CREDIT HOURS</b>		<b>13</b>	<b>CREDIT HOURS</b>		<b>15</b>	
<b>SENIOR</b>	ENGL 3153 or GEOL 3333	Technical Writing 4 or Geowriting <sup>4</sup>	3	GEOL 3123	Introductory Field Geology	3
	GPHY 4874	Seismic Exploration	4		Geology Elective (upper-division)	3
	GPHY 5864	Gravimetric and Magnetic Exploration	4		Geophysics Elective (upper-division)	3
		Physics Elective (upper-division)	3		General Education Non-Western Culture (Core IV) <sup>3</sup>	3
		Geophysics Elective (upper-division)	3			
	<b>CREDIT HOURS</b>		<b>17</b>	<b>CREDIT HOURS</b>		<b>12</b>
	<b>SUMMER</b>					
GPHY 4133	Colorado Field Geophysics ( Capstone )	3				
<b>CREDIT HOURS</b>		<b>3</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 outside the major must be upper-division.

<sup>4</sup> GEOL 3333 is taught on an irregular basis and may be substituted for ENGL 3513.