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

For Students Entering the Oklahoma State System for Higher Education **Summer 2015 through Spring 2016**

GENERAL REQUIREMENTS

Total Credit Hours	**121***
Total Upper-Division Credit Hours	**48**
Minimum Retention/Graduation Grade Point Averages:	
Minimum in OU Coursework	**2.50**
Minimum in Major Coursework- Combined and OU	**2.50**
Overall - Combined and OU	**2.50**

Petroleum Geology

B770
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
FRESHMAN	**ENGL 1113**, Principles of English Composition (Core I)	3	**ENGL 1213**, Principles of English Composition (Core I), **or**	3
	MATH 1914, Differential and Integral Calculus I (Core I)§	4	**EXPO 1213**, Expository Writing (Core I)	
	CHEM 1315, General Chemistry (Core II)	5		
	GEOL 1114, Physical Geology for Science and Engineering Majors	4	**MATH 2924**, Differential and Integral Calculus II§	4
			CHEM 1415, General Chemistry (Continued)	5
			[5]**GEOL** Elective	3
	TOTAL CREDIT HOURS	**16**	**TOTAL CREDIT HOURS**	**15**
SOPHOMORE	**MATH 2934**, Differential and Integral Calculus III§	4	**PHYS 2514**, General Physics for Engineering and Science Majors (Core II)	4
	HIST 1483 or **1493**, U.S. (Core IV)	3	**GEOL 3223**, Igneous and Metamorphic Petrology	3
	GEOL 2224, Introduction to Mineral Sciences	4	[4]**GEOL 3233**, Sedimentary Petrology and Sedimentology	3
	[2]General Education Understanding Artistic Forms (Core IV)	3	[1]Free Elective	3
	TOTAL CREDIT HOURS	**14**	**TOTAL CREDIT HOURS**	**13**
JUNIOR	**PHYS 2524**, General Physics for Engineering & Science Majors	4	**P SC 1113**, American Federal Government (Core III)	3
	GEOL 3114, Structural Geology	4	[1]Free Elective	3
	GEOL 3513, Invertebrate Paleontology	3	[2]General Education Social Sciences (Core III)	3
	[6]One of the following: (see note below)	3	[2]General Education Western Civilizaton & Culture (Core IV)	3
	GPHY 4413, Global Geophysics **GEOL 4223**, Principles of Geochemistry		[3]Science Elective (outside the major)	3
	TOTAL CREDIT HOURS	**14**	**TOTAL CREDIT HOURS**	**15**
SENIOR	**ENGL 3153**, Technical Writing, **or**	3	**GEOL 3123**, Introductory Field Geology	3
	[7]**GEOL 3333**, Geowriting		**GEOL 4233**, Subsurface Methods	3
	GEOL 4113, Depositional Systems & Stratigraphy	3	[3]Science Elective (outside the major)	3
	GEOL 4133, Petroleum Geology for Geoscientists	3	[3]Science Elective (outside the major)	3
	GPHY 4874, Seismic Exploration	4	[2]General Education Non-Western Culture (Core IV)	3
	TOTAL CREDIT HOURS	**13**	**TOTAL CREDIT HOURS**	**15**
SUMMER			**GEOL 4136**, Field Geology (Capstone)—**6 CREDIT HOURS**	

* = 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.

[1]= Six hours of electives. Foreign Language courses taken to satisfy University-Wide General Education Requirements may be counted as lower-division free electives.
[2]= To be chosen from the University-Wide General Education Approved Course List. Three hours of general education must be upper-division outside the major.
[3]= 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.

[5] = 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.

[6] = Only one of the following courses is required. GPHY 4413 is taught alternate fall semesters; GEOL 4223 is taught alternate spring semesters.

[7]= GEOL 3333 is taught on an irregular basis and may be substituted for ENGL 3513, Technical Writing.

§= 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.

Core I	**Symbolic and Oral Communication (9–19 hours, 3–5 courses)** • English Composition–6 hours, 2 courses • Mathematics–3 hours, 1 course • 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) • Other (courses such as communication, logic or public speaking)
Core II	**Natural Science (7 hours, 2 courses)** • Courses must be taken from different disciplines in the biological and/or physical sciences; one of which must include a laboratory.
Core III	**Social Science (6 hours, 2 courses)** • One course must be P SC 1113, "American Federal Government"
Core IV	**Humanities (12 hours, 4 courses)** • Understanding Artistic Forms–3 hours, 1 course • Western Civilization and Culture–6 hours, 2 courses, including HIST 1483 or HIST 1493 • Non-Western Cultures–3 hours, 1 course
Senior Capstone Experience (3 hours, 1 course)	