

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 2009 through Spring 2010

GENERAL REQUIREMENTS	
Total Credit Hours	126•
Total Upper-Division Credit Hours	48
Minimum Retention/Graduation Grade Point Averages:	
Minimum in OU Coursework	2.00
Minimum in Major Coursework- Combined and OU	2.00
Overall - Combined and OU	2.00

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 1823, Calculus & Analytic Geometry I (Core I)	3	EXPO 1213, Expository Writing (Core I)	
	CHEM 1315, General Chemistry (Core II)	5	MATH 2423, Calculus & Analytic Geometry II	3
	GEOL 1114, Physical Geology for Science and Engineering Majors	4	CHEM 1415, General Chemistry (Continued)	5
			GEOL 1124, Earth History	4
	TOTAL CREDIT HOURS	15	TOTAL CREDIT HOURS	15
SOPHOMORE	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	⁴ C S 1313, Programming for Non-Majors	3
	² General Education Understanding Artistic Forms (Core IV)	3	GEOL 3223, Igneous and Metamorphic Petrology	3
			GEOL 3233, Sedimentary Petrology and Sedimentology	3
	TOTAL CREDIT HOURS	13	TOTAL CREDIT HOURS	16
JUNIOR	PHYS 2524, General Physics for Engineering and Science Majors	4	P SC 1113, American Federal Government (Core III)	3
	GEOL 3114, Structural Geology	4	¹ Free Elective	3
	GEOL 3513, Fundamentals of Invertebrate Paleontology	3	GPHY 3413, Principles of Geophysics	3
	² General Education Western Civilization & Culture (Core IV)	3	² General Education Social Sciences (Core III)	3
			P E 3213, Reservoir Rock Properties	3
		P E 3221, Rock Properties Lab	1	
	TOTAL CREDIT HOURS	14	TOTAL CREDIT HOURS	16
SENIOR	ENGL 3153, Technical Writing	3	GEOL 3123, Introductory Field Geology	3
	GEOL 4113, Depositional Systems & Stratigraphy	3	GEOL 4233, Subsurface Methods	3
	GEOL 4133, Fundamentals of Petroleum Geology	3	P E 3813, Formation Evaluation with Well Logs	3
	GPHY 4874, Seismic Exploration	4	³ Science Elective	3
	¹ Free Elective	3	² General Education Non-Western Culture (Core IV)	3
	TOTAL CREDIT HOURS	16	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 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.
 - ¹ = Six hours of faculty-adviser-approved 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 faculty-adviser-approved courses. Three hours must be chosen from biological sciences, chemistry, computer science, mathematics, physics, and/or engineering. The remaining six hours (upper-division, 3000-4000-level) are fulfilled by P E 3213 and 3813.
 - ⁴ = This course fulfills the Computer Literacy Requirement for graduation as required by the Oklahoma State Regents for Higher Education.
- NOTE:** No more than 52 hours of Geology coursework may be taken to fulfill the 126 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.

Core I	Symbolic and Oral Communication (9–19 hours, 3–5 courses) <ul style="list-style-type: none"> • 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) <ul style="list-style-type: none"> • 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) <ul style="list-style-type: none"> • One course must be P SC 1113, "American Federal Government"
Core IV	Humanities (12 hours, 4 courses) <ul style="list-style-type: none"> • 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)