

# REQUIREMENTS FOR THE BACHELOR OF SCIENCE IN PETROLEUM ENGINEERING

(Accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org>)

## MEWBOURNE COLLEGE OF EARTH AND ENERGY

THE UNIVERSITY OF OKLAHOMA

### GENERAL REQUIREMENTS

Total Credit Hours . . . . . 127\*  
**Minimum Retention/Graduation Grade Point Averages:**  
 Overall - Combined and OU . . . . . 2.50  
 Major - Combined and OU . . . . . 2.50  
 Curriculum - Combined and OU . . . . . 2.50  
**A minimum grade of C is required for each course in the curriculum.**

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

### Petroleum Engineering

**B765**

Bachelor of Science in  
 Petroleum Engineering

**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
<b>FRESHMAN</b>	ENGL 1113, Prin. of English Composition (Core I) CHEM 1315, General Chemistry (Core II) *MATH 1914, Differential & Integral Calculus I (Core I) HIST 1483, U.S., 1492-1865, or 1493, U.S., 1865-Present (Core IV) † Approved Elective: Social Science (Core III)	3 5 4 3 3	ENGL 1213, Prin. of English Composition (Core I), or EXPO 1213, Expository Writing CHEM 1415, General Chemistry *MATH 2924, Differential & Integral Calculus II PHYS 2514, General Physics for Engineering & Science Majors (Core II) P E 2011, Intro. to Petroleum Engineering Systems	3 3 5 4 4 1
	<b>TOTAL CREDIT HOURS</b>		<b>TOTAL CREDIT HOURS</b>	
		18	17	
<b>SOPHOMORE</b>	*MATH 2934, Differential & Integral Calculus III PHYS 2524, General Physics for Engineering & Science Majors GEOL 1114, Physical Geology P E 2113, Statics and Dynamics	4 4 4 3	P E 2213, Thermodynamics P E 2153, Mechanics of Materials P E 3022, Technical Communications P E 3213, Reservoir Rock Properties P E 3221, Rock Properties Lab † Approved Elective: Artistic Forms (Core IV)	3 3 2 3 1 3
	<b>TOTAL CREDIT HOURS</b>		<b>TOTAL CREDIT HOURS</b>	
		15	15	
<b>SUMMER</b>			§ P E 3222, Petroleum Engineering Practice II (Internship)	2
		<b>TOTAL CREDIT HOURS</b>		2
<b>JUNIOR</b>	MATH 3113, Intro. to Ordinary Differential Equations P E 3123, Petroleum Reservoir Fluids P E 3223, Fluid Mechanics P E 3313, Drilling and Completions I P E 3712, Petroleum Economics P E 3723, Numerical Methods for Petroleum Engineering Computing	3 3 3 3 2 3	GEOL 3003, Structural Geology & Stratigraphy-Petr. Engr. P E 3413, Production Engineering I P E 3513, Reservoir Engineering I P E 3813, Formation Evaluation with Well Logs P E 4331, Drilling and Production Engineering Lab † Approved Elective: Non-Western Culture (Core IV)	3 3 3 3 1 3
	<b>TOTAL CREDIT HOURS</b>		<b>TOTAL CREDIT HOURS</b>	
		17	16	
<b>SENIOR</b>	GPHY 3423, Introductory Petroleum Geology & Geophysics P E 4323, Drilling and Completions II P E 4521, Reservoir Fluid Mechanics Lab P E 4712, Petroleum Project Evaluation P E 4533, Reservoir Engineering II † Approved Elective: Western Civ. & Culture (Core IV)	3 3 1 2 3 3	P SC 1113, American Federal Government (Core III) P E 4423, Production Engineering II P E 4553, Integrated Reservoir Management (Capstone) § P E Approved P E Elective	3 3 3 3
	<b>TOTAL CREDIT HOURS</b>		<b>TOTAL CREDIT HOURS</b>	
		15	12	

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.

† To be chosen from the **University-Wide General Education Approved Course List**. Three of these hours must be upper-division (3000-4000). See list in the Class Schedule.

In order to progress in your curriculum, and as a specific graduation requirement, a grade of C or better is required in each course in the curriculum.

Students must successfully complete prerequisite courses (with a minimum C grade) before proceeding to the next course.

\* Two college-level courses in a single foreign language are required; this may be satisfied by successful completion of 2 years in a single foreign language in high school. Students who must take foreign language at the University will have an additional 6-10 hours of coursework.

§ **P E Elective:** P E 4563, Well Testing, P E 4583, Improved Recovery Techniques, P E 4033, Oil, Gas & Environmental Law, or any P E 5000-level course. A P E elective may be taken in place of P E 3222.

\*MATH 1823, 2423, 2433, and 2443 sequence can be substituted for MATH 1914, 2924, and 2934.