

# 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 2018 through  
 Spring 2019**

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

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 4573, 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.

◆CHEM 1315 and CHEM 1415 can be substituted with CHEM 1335 (Fall only) and 1435 (Spring only), respectively.