

# REQUIREMENTS FOR THE BACHELOR OF SCIENCE IN PETROLEUM ENGINEERING

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

## 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 . . . . . **2.00**

Major - Combined and OU . . . . . **2.00**

Curriculum - Combined and OU . . . . . **2.00**

**A minimum grade of C is required for each course in the curriculum.**

### Petroleum Engineering

**B765**

Bachelor of Science in  
Petroleum Engineering

For Students Entering the  
Oklahoma State System  
for Higher Education  
**Summer 2012 through  
Spring 2013**

**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>	<b>ENGL 1113</b> , Prin. of English Composition (Core I)	3	<b>ENGL 1213</b> , Prin. of English Composition (Core I), <b>or</b>	3
	<b>CHEM 1315</b> , General Chemistry (Core II)	5	<b>EXPO 1213</b> , Expository Writing	3
	<b>MATH 1823</b> , Calculus & Analytic Geometry I (Core I)	3	<b>CHEM 1415</b> , General Chemistry	5
	<b>HIST 1483</b> , U.S., 1492-1865, or	3	<b>MATH 2423</b> , Calculus & Analytic Geometry II (Core I)	3
	<b>1493</b> , U.S., 1865-Present (Core IV)	3	<b>PHYS 2514</b> , General Physics for Engineering & Science Majors (Core II)	4
	<b>ENGR 1411</b> , Freshman Engineering Experience	1	<b>P E 2011</b> , Intro. to Petroleum Engineering Systems	1
<b>TOTAL CREDIT HOURS</b>		<b>15</b>	<b>TOTAL CREDIT HOURS</b>	
<b>TOTAL CREDIT HOURS</b>		<b>15</b>	<b>16</b>	
<b>SOPHOMORE</b>	<b>MATH 2433</b> , Calculus & Analytic Geometry III	3	<b>#ECON 1113</b> , Principles of Economics–Macro (Core III)	3
	<b>PHYS 2524</b> , General Physics for Engineering & Science Majors	4	<b>MATH 2443</b> , Calculus & Analytic Geometry IV	3
	<b>GEOL 1114</b> , Physical Geology	4	<b>P E 2213</b> , Thermodynamics	3
	<b>P E 2113</b> , Statics and Dynamics	3	<b>P E 2153</b> , Mechanics of Materials	3
	†Approved Elective: Artistic Forms (Core IV)	3	<b>P E 3213</b> , Reservoir Rock Properties	3
		3	<b>P E 3221</b> , Rock Properties Lab	1
<b>TOTAL CREDIT HOURS</b>		<b>17</b>	<b>TOTAL CREDIT HOURS</b>	
<b>TOTAL CREDIT HOURS</b>		<b>17</b>	<b>16</b>	
<b>SUMMER</b>			<b>§P E 3222</b> , Petroleum Engineering Practice II (Internship)	2
<b>TOTAL CREDIT HOURS</b>			<b>TOTAL CREDIT HOURS</b>	
<b>TOTAL CREDIT HOURS</b>			<b>2</b>	
<b>JUNIOR</b>	<b>MATH 3113</b> , Intro. to Ordinary Differential Equations	3	<b>GEOL 3003</b> , Structural Geology & Stratigraphy-Petr. Engr.	3
	<b>P E 3022</b> , Technical Communications	2	<b>P E 3413</b> , Subsurface Production Engineering	3
	<b>P E 3123</b> , Petroleum Reservoir Fluids	2	<b>P E 3513</b> , Reservoir Engineering Fundamentals	3
	<b>P E 3223</b> , Fluid Mechanics	3	<b>P E 3723</b> , Numerical Methods for Petroleum Engineering Computing	3
	<b>P E 3313</b> , Drilling and Completions I	3	<b>P E 3813</b> , Formation Evaluation with Well Logs	3
		3		3
<b>TOTAL CREDIT HOURS</b>		<b>14</b>	<b>TOTAL CREDIT HOURS</b>	
<b>TOTAL CREDIT HOURS</b>		<b>14</b>	<b>15</b>	
<b>SENIOR</b>	<b>GPHY 3423</b> , Introductory Petroleum Geology & Geophysics	3	<b>P SC 1113</b> , American Federal Government (Core III)	3
	<b>P E 4323</b> , Drilling and Completions II	3	<b>P E 4331</b> , Drilling and Production Engineering Lab	1
	<b>P E 4521</b> , Reservoir Fluid Mechanics Lab	1	<b>P E 4423</b> , Surface Production Engineering	3
	<b>P E 4713</b> , Petroleum Project Evaluation	3	<b>P E 4553</b> , Integrated Reservoir Management (Capstone)	3
	<b>§P E</b> Approved P E Elective I	3	<b>§P E</b> Approved P E Elective II	3
	†Approved Elective: Western Civ. & Culture (Core IV)	3	†Approved Elective: Non-Western Culture (Core IV)	3
<b>TOTAL CREDIT HOURS</b>		<b>16</b>	<b>TOTAL CREDIT HOURS</b>	
<b>TOTAL CREDIT HOURS</b>		<b>16</b>	<b>16</b>	

**NOTE:** Engineering transfer students may take ENGR 3511 in place of ENGR 1411.

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 nine 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.

#Economics 1113 satisfies three hours of lower-division, General Education Social Science.

§ **P E Elective I:** P E 4563, Well Testing, or P E 4533, Applied Reservoir Engineering. **P E Elective II:** P E 4543, Improved Recovery Techniques, or other P E Elective I, or P E 4221 and any P E 5000-level course. A third P E elective may be taken in place of P E 3222.