

# REQUIREMENTS FOR THE BACHELOR OF SCIENCE IN PETROLEUM ENGINEERING/ MASTER OF SCIENCE IN PETROLEUM ENGINEERING

(Bachelor of Science Portion of the Program 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 . . . . . **151\***  
**Minimum Retention/Graduation Grade Point Averages:**  
 Overall - Combined and OU . . . . . **3.00**  
 Major - Combined and OU . . . . . **3.00**  
 Curriculum - Combined and OU . . . . . **3.00**  
**A minimum grade of C is required for each course in the curriculum.**

**Petroleum Engineering/  
A764**  
 Bachelor of Science in  
 Petroleum Engineering/  
 Master of Science in  
 Petroleum Engineering  
**F765**

For Students Entering the  
 Oklahoma State System  
 for Higher Education  
**Summer 2014 through  
 Spring 2015**

**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	5
	*MATH 1914, Differential & Integral Calculus I (Core I)	4	CHEM 1415, General Chemistry	4
	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
<b>TOTAL CREDIT HOURS</b>		<b>18</b>	<b>TOTAL CREDIT HOURS</b>	
<b>SOPHOMORE</b>	*MATH 2934, Differential & Integral Calculus III	4	P E 2213, Thermodynamics	3
	PHYS 2524, General Physics for Engr. & 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
<b>TOTAL CREDIT HOURS</b>		<b>15</b>	<b>TOTAL CREDIT HOURS</b>	
<b>SUMMER</b>			*P E 3222, Petroleum Engineering Practice II (Internship)	2
			<b>TOTAL CREDIT HOURS</b>	
			<b>2</b>	
<p><b>Students must take the GRE and apply for the MS program during the third year; minimum OU GPA and combined GPA of 3.0 is required.</b>  <b>Students should submit an application to the School of Petroleum Engineering for the accelerated program during the fall semester of the Junior year. Students must also apply to the Graduate College during the spring semester of the Senior year to be admitted by that college to the MS program.</b></p>				
<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 and Production Engineering Lab	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, Intro. Petroleum Geology & Geophysics	3	P SC 1113, American Federal Government	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 5553, Integrated Reservoir Management (capstone)	3
	P E 4712, Petroleum Project Evaluation	2	♦ P E Approved Graduate Elective	3
	P E 4533, Reservoir Engineering II	3	Approved Graduate Elective	3
†Approved Elective: Western Civ. & Culture (Core IV)	3			
<b>TOTAL CREDIT HOURS</b>		<b>15</b>	<b>TOTAL CREDIT HOURS</b>	
			<b>15</b>	
<b>SUMMER</b>			Approved Math elective	3
			Research Hours	2
			<b>TOTAL CREDIT HOURS</b>	
			<b>5</b>	
<b>FIFTH YEAR</b>	Approved Graduate Elective	3	Approved Graduate Elective	3
	Approved Graduate Elective	3	Research Hours	2
	Approved Graduate Elective	3		
	Research Hours	2		
	<b>TOTAL CREDIT HOURS</b>		<b>11</b>	<b>TOTAL CREDIT HOURS</b>
			<b>5</b>	

\* Students may enter the accelerated program based on the undergraduate degree pattern offered in the year they first enrolled in the Oklahoma State System of Higher Education or later. Students must maintain a 3.0 GPA from the time of entering the accelerated program until graduation.

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 twelve 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.

\* An approved PE elective may be taken in place of P E 3222.

♦ Courses applied to both BS and MS degrees.

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