

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

(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

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

GENERAL REQUIREMENTS	
Total Credit Hours . . . . .	165*
<b>Minimum Retention/Graduation Grade Point Averages:</b>	
Overall - Combined and OU . . . . .	3.00
Major - Combined and OU . . . . .	3.00
Curriculum - Combined and OU . . . . .	3.00
<b>A minimum grade of C is required for each course in the curriculum.</b>	

**Petroleum Engineering/  
A765**  
Bachelor of Science in  
Petroleum Engineering  
**F140**  
Master of Business  
Administration

**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>17</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
	†Approved Elective: Western Civ. & Culture (Core IV)	3	P E 3221, Rock Properties Lab	1
	<b>TOTAL CREDIT HOURS</b>	<b>18</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>Students must take the GMAT and apply for the MBA program during the third year; minimum OU GPA and combined GPA of 3.0 is required. 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 Price College of Business during the spring semester of the junior year to be admitted by that college to the MBA program.</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 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>	B AD 5001, Math/Computer Skills	1	ACCT 5212, Managerial Accounting	2
	B AD 5102, Managerial Economics	2	B AD 5112, Microeconomics for MBAs	2
	ACCT 5202, Financial Accounting	2	*B AD 5142, Introduction to Energy	2
	FIN 5302, Financial Markets and Securities	2	*FIN 5162, Energy Assets and Commodities	2
	MGT 5702, Organizational Behavior	2	FIN 5312, Corporate Finance	2
MKT 5402, Marketing Management	2	*FIN 5322, Derivative Securities and Markets	2	
SCM 5502, Supply Chain Management	2	*MIS 5602, Management Information Systems	2	
P E 4533, Reservoir Engineering II	3	P E 4033, Oil, Gas and Environmental Law	3	
	<b>TOTAL CREDIT HOURS</b>	<b>16</b>	<b>TOTAL CREDIT HOURS</b>	<b>17</b>
<b>SUMMER</b>			MBA Internship	1
			<b>TOTAL CREDIT HOURS</b>	<b>1</b>
<b>FIFTH YEAR</b>	*B AD 5152, Energy Accounting and Regulations	2	B AD 5902, Strategic Management	2
	*FIN 5202, Energy Corporate Finance	2	P E 4423, Production Engineering II	3
	L S 5802, Business Ethics	2	P E 5553, Integrated Reservoir Management (Capstone)	3
	MGT 5712, Negotiations and Leadership	2	P SC 1113, American Federal Government (Core III)	3
	GP HY 3423, Introductory Petroleum Geology & Geophysics	3	*P E Approved 5000-level Elective	3
P E 4323, Drilling and Completions II	3			
P E 4521, Reservoir Fluid Mechanics Lab	1			
P E 4712, Petroleum Project Evaluation	2			
	<b>TOTAL CREDIT HOURS</b>	<b>17</b>	<b>TOTAL CREDIT HOURS</b>	<b>14</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 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.

§ This course must be 5000-level to apply to the Petroleum Engineering and MBA degrees.

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

\*Counts toward fulfillment of the MBA Energy Specialization (10 hours: B AD 5142, 5152; FIN 5162, 5202, 5322).

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