

# 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>)

## MEWBORNE COLLEGE OF EARTH AND ENERGY — THE UNIVERSITY OF OKLAHOMA

For Students Entering the Oklahoma State System for Higher Education  
**Summer 2018 through Spring 2019**

GENERAL REQUIREMENTS	
Total Credit Hours . . . . .	170*
<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 Q513**  
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 PE major GPA, 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>	ACCT 5202, Financial Accounting	2	◆ENGB 5162, Energy Corporate Finance	2
	B AD 5010, Found. MBA Success	0	FIN 5312, Corporate Finance	2
	FIN 5302, Financial Markets and Securities	2	◆FIN 5322, Derivative Securities and Markets	2
	GPHY 3423, Introductory Petroleum Geology & Geophysics	3	P E 4033, Oil, Gas and Environmental Law	3
	P E 4323, Drilling and Completions II	3	P E 4423, Production Engineering II	3
	P E 4521, Reservoir Fluid Mechanics Laboratory	1	P E 5553, Integrated Reservoir Management (Capstone)	3
	P E 4533, Reservoir Engineering II	3	§P E Approved 5000-level Elective	3
	P E 4712, Petroleum Project Evaluation	2		
P SC 1113, American Federal Government (Core III)	3			
	<b>TOTAL CREDIT HOURS</b>	<b>19</b>	<b>TOTAL CREDIT HOURS</b>	<b>18</b>
<b>FIFTH YEAR</b>	B AD 5001, Quantitative Methods and Modeling I	1	ACCT 5212, Managerial Accounting	2
	B AD 5101, MBA - Professional Development	1	B AD 5201, MBA - Professional Development II	1
	B AD 5102, Managerial Economics	2	B AD 5812, Global Business Experience	2
	B AD 5832, Applied Business Internship	2	B AD 5822, Business Consulting Practicum	2
	◆ENGB 5152, Energy Accounting and Regulations	2	B AD 5902, Strategic Management	2
	◆ENGB 5172, Energy Assets and Commodities	2	L S 5802, Business Ethics/Legal	2
	◆ENGB 5182, Valuation, Mergers/Acquisitions/Corporate Restructuring	2	MKT 5402, Marketing Management	2
	MGT 5702, Organizational Behavior	2	Graduate Business Elective	1
	MIT 5602, Management Information Systems	2		
	<b>TOTAL CREDIT HOURS</b>	<b>16</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: ENGB 5152, 5162, 5172, 5182; FIN 5322).

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

A student who actively and satisfactorily participates in all Prelude activities will receive a grade of 'S' for B AD 5010. A student who does not satisfactorily participate in 75% of Prelude Week will be required to participate in a make-up session within the first two weeks of the semester. Failure to complete a make-up session will result in a grade of 'U' for B AD 5010, resulting in cancellation of the student's enrollment in the MBA program.