

**REQUIREMENTS FOR THE BACHELOR OF SCIENCE/MASTER OF BUSINESS ADMINISTRATION**  
**MEWBOURNE COLLEGE OF EARTH AND ENERGY**  
**THE UNIVERSITY OF OKLAHOMA**

Academic Year
For Students Entering the Oklahoma State System for Higher Education Summer 2020 through Spring 2021

General Requirements	
Minimum Total Credit Hours .....	169
<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

Program
<b>Petroleum Engineering</b>
<b>A765/F140 Q513</b>
Bachelor of Science/Master of Business Administration

OU encourages students to complete at least 34 hours of applicable coursework each year to have the opportunity to graduate in 5 years.

**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.**

Year	FIRST SEMESTER		Hours	SECOND SEMESTER		Hours
<b>FRESHMAN</b>	ENGL 1113	Principles of English Composition ( Core I )	3	ENGL 1213 or EXPO 1213	Principles of English Composition ( Core I ) or Expository Writing	3
	CHEM 1315	General Chemistry ( Core II )	5	CHEM 1415	General Chemistry (Continued)	5
	MATH 1914	Differential and Integral Calculus I ( Core I ) <sup>1</sup>	4	MATH 2924	Differential and Integral Calculus II <sup>1</sup>	4
	HIST 1483 or HIST 1493	United States to 1865 ( Core IV ) or United States, 1865 to the Present	3	PHYS 2514	General Physics for Engineering and Science Majors ( Core II )	4
		Approved Elective: Social Science (Core III) <sup>2</sup>	3	P E 2011	Introduction to Petroleum Engineering	1
	<b>CREDIT HOURS</b>	<b>18</b>		<b>CREDIT HOURS</b>	<b>17</b>	
<b>SOPHOMORE</b>	MATH 2934	Differential and Integral Calculus III <sup>1</sup>	4	P E 2213	Thermodynamics	3
	PHYS 2524	General Physics for Engineering and Science Majors	4	P E 2153	Mechanics of Materials	3
	GEOL 1114	Physical Geology for Science and Engineering Majors	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) <sup>2</sup>	3	P E 3221	Rock Properties Laboratory	1
				Approved Elective: Artistic Forms (Core IV) <sup>2</sup>	3	
	<b>CREDIT HOURS</b>	<b>18</b>		<b>CREDIT HOURS</b>	<b>15</b>	
	<b>SUMMER</b>					
	P E 3220	Petroleum Engineering Internship	0			
	<b>CREDIT HOURS</b>	<b>0</b>				
<b>JUNIOR</b>	MATH 3113	Introduction to Ordinary Differential Equations	3	GEOL 3003	Structural Geology and Stratigraphy for Petroleum Engineers	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 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 Engineering Computation	3		Approved Elective: Non-Western Culture (Core IV) <sup>2</sup>	3	
	<b>CREDIT HOURS</b>	<b>17</b>		<b>CREDIT HOURS</b>	<b>16</b>	
<b>SENIOR</b>	ACCT 5202	Financial Accounting	2	B AD 5201	MBA - Professional Development II	1
	B AD 5010	Foundations of MBA Success	0	B AD 5812	Global Business Experience	2
	B AD 5101	MBA - Professional Development	1	ENGB 5162	Energy Corporate Finance <sup>5</sup>	2
	FIN 5102	Financial Management	2	FIN 5112	Investments	2
	GPHY 3423	Introductory Petroleum Geology and Geophysics	3	FIN 5322	Derivative Securities and Markets <sup>5</sup>	2
	P E 4323	Drilling II	3	P E 4033	Oil, Gas and Environmental Law	3
	P E 4423	Production Engineering II	3	P E 4552	Data Analytics	2
	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 <sup>3</sup>	3
P E 4712	Petroleum Project Evaluation	2	P SC 1113	American Federal Government	3	
	<b>CREDIT HOURS</b>	<b>20</b>		<b>CREDIT HOURS</b>	<b>23</b>	
<b>FIFTH YEAR</b>	B AD 5102	Managerial Economics	2	B AD 5822	Business Consulting Practicum	2
	B AD 5832	Applied Field Project	2	B AD 5902	Strategic Management	2
	ENGB 5152	Energy Accounting and Regulations <sup>5</sup>	2	L S 5802	Business Ethics/Legal	2
	ENGB 5172	Energy Assets and Commodities: Financial Instruments, Pricing and Trading <sup>5</sup>	2	MKT 5402	Marketing Management	2
	ENGB 5182	Enterprise Valuation, Mergers and Acquisitions, and Corporate Restructuring <sup>5</sup>	2		Graduate Business Elective	1
	MGT 5702	Organizational Behavior	2		Choose one of the following:	2
	MIT 5602	Management Information Systems	2	ACCT 5212	Managerial Accounting	
				B AD 5182	Quantitative Analysis II	
			ENT 5102	Entrepreneurship & Innovation		
	<b>CREDIT HOURS</b>	<b>14</b>		<b>CREDIT HOURS</b>	<b>11</b>	

<sup>1</sup> The MATH 1823, MATH 2423, MATH 2433, and MATH 2443 sequence can be substituted for MATH 1914, MATH 2924, and MATH 2934.

<sup>2</sup> 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.

<sup>3</sup> This course must be 5000-level to apply to the Petroleum Engineering and MBA degrees.

<sup>4</sup> An approved P E elective may be taken in place of P E 3220.

<sup>5</sup> Counts toward fulfillment of the MBA Energy Specialization (10 hours: ENGB 5152, ENGB 5162, ENGB 5172, ENGB 5182; FIN 5322).

- 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 lists.
- 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.

## **B.S. PROGRAM ACCREDITED BY THE ENGINEERING ACCREDITATION COMMISSION OF ABET, <http://www.abet.org>**

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.

**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.**

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.