

# PETROLEUM ENGINEERING, BACHELOR OF SCIENCE IN PETROLEUM ENGINEERING/ MASTER OF BUSINESS ADMINISTRATION

Minimum Total Credit Hours: 170

Overall GPA - Combined and OU: 3.00

Major GPA - Combined and OU: 3.00

Curriculum GPA - Combined and OU: 3.00

Program Code: A765/F140 Q513

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.

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.

Course	Title	Credit Hours
<b>Freshman</b>		
<b>First Semester</b>		
ENGL 1113	Principles of English Composition (Core I)	3
CHEM 1315	General Chemistry (Core II)	5
MATH 1914	Differential and Integral Calculus I (Core I) <sup>1</sup>	4
HIST 1483 or HIST 1493	United States, 1492 to 1865 (Core IV) or United States, 1865 to the Present	3
Approved Elective: Social Science (Core III) <sup>2</sup>		3
Credit Hours		18
<b>Second Semester</b>		
ENGL 1213 or EXPO 1213	Principles of English Composition (Core I) or Expository Writing	3
CHEM 1415	General Chemistry (Continued)	5
MATH 2924	Differential and Integral Calculus II <sup>1</sup>	4
PHYS 2514	General Physics for Engineering and Science Majors (Core II)	4
P E 2011	Introduction to Petroleum Engineering	1
Credit Hours		17
<b>Sophomore</b>		
<b>First Semester</b>		
MATH 2934	Differential and Integral Calculus III <sup>1</sup>	4

PHYS 2524	General Physics for Engineering and Science Majors	4
GEOL 1114	Physical Geology for Science and Engineering Majors	4
P E 2113	Statics and Dynamics	3
Approved Elective: Western Civ. & Culture (Core IV) <sup>2</sup>		3
Credit Hours		18
<b>Second Semester</b>		
P E 2213	Thermodynamics	3
P E 2153	Mechanics of Materials	3
P E 3022	Technical Communications	2
P E 3213	Reservoir Rock Properties	3
P E 3221	Rock Properties Laboratory	1
Approved Elective: Artistic Forms (Core IV) <sup>2</sup>		3
Credit Hours		15
<b>Summer</b>		
P E 3222	Petroleum Engineering Practice II (Internship) <sup>3,4</sup>	2
Credit Hours		2
<b>Junior</b>		
<b>First Semester</b>		
MATH 3113	Introduction to Ordinary Differential Equations	3
P E 3123	Petroleum Reservoir Fluids	3
P E 3223	Fluid Mechanics	3
P E 3313	Drilling I	3
P E 3712	Petroleum Economics	2
P E 3723	Numerical Methods for Engineering Computation	3
Credit Hours		17
<b>Second Semester</b>		
GEOL 3003	Structural Geology and Stratigraphy for Petroleum Engineers	3
P E 3413	Production Engineering I	3
P E 3513	Reservoir Engineering I	3
P E 3813	Formation Evaluation with Well Logs	3
P E 4331	Drilling Engineering Laboratory	1
Approved Elective: Non-Western Culture (Core IV) <sup>2</sup>		3
Credit Hours		16
<b>Senior</b>		
<b>First Semester</b>		
ACCT 5202	Financial Accounting	2
B AD 5010	Foundations of MBA Success	0
FIN 5302	Financial Markets and Securities	2
GPHY 3423	Introductory Petroleum Geology and Geophysics	3
P E 4323	Drilling II	3
P E 4521	Reservoir Fluid Mechanics Laboratory	1
P E 4533	Reservoir Engineering II	3
P E 4712	Petroleum Project Evaluation	2
P SC 1113	American Federal Government (Core III)	3
Credit Hours		19

**Second Semester**

ENGB 5162	Energy Corporate Finance <sup>5</sup>	2
FIN 5312	Corporate Finance	2
FIN 5322	Derivative Securities and Markets <sup>5</sup>	2
P E 4033	Oil, Gas and Environmental Law	3
P E 4423	Production Engineering II	3
P E 5553	Integrated Reservoir Management (Capstone)	3
P E Approved 5000-level Elective <sup>3</sup>		3
Credit Hours		18

**Fifth Year****First Semester**

B AD 5001	Quantitative Methods and Modeling I	1
B AD 5101	MBA - Professional Development	1
B AD 5102	Managerial Economics	2
B AD 5832	Applied Field Project	2
ENGB 5152	Energy Accounting and Regulations <sup>5</sup>	2
ENGB 5172	Energy Assets and Commodities: Financial Instruments, Pricing and Trading <sup>5</sup>	2
ENGB 5182	Enterprise Valuation, Mergers and Acquisitions, and Corporate Restructuring <sup>5</sup>	2
MGT 5702	Organizational Behavior	2
MIT 5602	Management Information Systems	2
Credit Hours		16

**Second Semester**

ACCT 5212	Managerial Accounting	2
B AD 5201	MBA - Professional Development II	1
B AD 5812	Global Business Experience	2
B AD 5822	Business Consulting Practicum	2
B AD 5902	Strategic Management	2
L S 5802	Business Ethics/Legal	2
MKT 5402	Marketing Management	2
Graduate Business Elective		1
Credit Hours		14
Total Credit Hours		170

<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 3222.

<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.

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.