

2015-16 CATALOG

PETROLEUM ENGINEERING

B.S. Degree Requirements
133 Credits

GENERAL REQUIREMENTS

COMMUNICATION: (9)

ENGL 111X (3)____
ENGL 211X/213X (3)____
COMM 131X/141X (3)____

PERSPECTIVES ON THE HUMAN CONDITION: (18-22)

Complete the 6 courses listed OR 4 of those listed plus 2 semester length courses in a single AK Native or other non-English language or 3 semester length courses (9 credits) in American Sign Language.

ANTH 100X/SOC 100X (3)____
ECON/PS 100X (3)____
HIST 100X (3)____
ART/MUS/THR 200X or HUM 201X or ANS 202X (3)____
ENGL/FL 200X (3)____
BA 323X or COMM 300X or JUST 300X or NRM 303X or PHIL 322X or PS 300X (3)____

Language option as listed above:
_____() _____() _____()

MATHEMATICS: (18)

MATH 251X (4)____ MATH 252X (4)____
MATH 253X (4)____ MATH 302 (3)____
MATH 310 (3)____ OR ES 301 (3)____

NATURAL SCIENCE: (16)

CHEM 105X (4)____ CHEM 106X (4)____
PHYS 211X (4)____ PHYS 212X (4)____

LIBRARY & INFO SKILLS: (1)

LS 101X (1)____

UPPER DIVISION CREDITS: (39)

Transfer Credits: _____
UAF Credits (minimum 24): _____

TOTAL TO DATE: _____
TO BE COMPLETED: _____

Complete 2 designated (W) courses AND
1 designated (O) course OR 2 courses
designated (O/2) at the upper division level:

_____(W) _____(W)
_____(O) OR _____(O/2) _____(O/2)

**Designates only grades of "C" or better may be used to fulfill this requirement.*

***MAJOR REQUIREMENTS**

1. Complete the following: (41)

PETE 101 (3)____
PETE 301 (4)____
PETE 302 (3)____
PETE 303 (1)____(W)
PETE 407 (3)____
PETE 411 (1)____(W)
PETE 421 (3)____
PETE 426 (3)____
PETE 431 (2)____
PETE 456 (3)____
PETE 466 (3)____
PETE 476 (3)____
PETE 478 (2)____
PETE 481 (3)____(W)
PETE 487A (1)____+
PETE 487B (1)____(W,O)
PETE 489 (2)____

+PETE 487A is a prerequisite for PETE 487B.
Must take both courses to meet the Oral communication and Writing intensive requirements.

2. Complete the following: (17)

ES 201 (3)____
ES 208 (4)____
ES 331 (3)____
ES 341 (4)____
ES 346 (3)____

3. Complete 3 credits of Engineering elective (eg. ME 416/ES 307):

_____(3)____

4. Complete 3 credits of technical engineering elective (eg. CE 603):

_____(3)____

5. Complete the following: (7-8)

A. GEOS 101X (4)____ or GE 261(3)____
B. GEOS 370 (4)____

6. Complete the Fundamentals of Engineering Exam: _____

Credits for core/general requirements: 62
Credits required for major: 71-72
Total credits required for degree: 133

BACHELOR OF SCIENCE IN PETROLEUM ENGINEERING (DEGREE PLAN)

First Year: Fall

CHEM 105X-General Chemistry	4
ENGL 111X-Intro to Acad Writing	3
MATH 251X-Calculus I	4
PETE 101-Fund of Petr. Drilling & Production	3
Perspectives Core (1 of 6)	3
Total	17

First Year: Spring

CHEM 106X-General Chemistry II	4
COMM 131X or 141X	3
ES 201-Computer Techniques	3
GE 261-Geology for Engineers	3
MATH 252X-Calculus II	4
Total	17

Second Year: Fall

ENGL 211X/213X-Academic Writing	3
LS 101X	1
MATH 253X-Calculus III	4
PHYS 211X-General Physics I	4
Perspectives Core (2 of 6)	3
Total	15

Second Year: Spring

ES 208-Mechanics	4
ES 346-Basic Thermodynamics	3
MATH 302-Differential Equations	3
PHYS 212X-General Physics	4
Perspectives Core (3 of 6)	3
Total	17

Third Year: Fall

ES 331-Mechanics of Materials	3
ES 341-Fluid Mechanics	4
GEOS 370-Struct. Geol. For Petr. Engr.	4
PETE 301-Reservoir Rock & Fluid Prop.	4
Perspectives Core (4 of 6)	3
Total	18

Third Year: Spring

ES 301 - Engineering Analysis	3
PETE 302-Well Logging	3
PETE 303-Reservoir Rock/Fluid Prop. Lab	1
PETE 411-Drilling Fluids Laboratory	1
PETE 426-Drilling Engineering	3
PETE 476-Reservoir Engineering	3
Perspectives Core (5 of 6)	3
Total	17

Fourth Year: Fall

PETE 407-Production Engineering	3
PETE 431-Natural Gas Engineering	2
PETE 466-Petroleum Recovery Methods	3
PETE 481-Well Completions/Stimul. Des	3
PETE 487A-Petroleum Project Design	1
Perspectives Core (6 of 6)	3
Total	15

Fourth Year: Spring

PETE 421-Reservoir Characterization	3
PETE 456-Pet. Eval. and Econ. Dec	3
PETE 478-Well Test Analysis	2
PETE 487B-Petroleum Project Design	1
PETE 489-Reservoir Simulation	2
Engineering Elective**	3
Technical Elective***	3
Total	17

**As approved by advisor (e.g. ME 416 or ES 307).

***As approved by advisor (e.g. CE 603).

NOTE: GEOS 101X may be taken in a fall semester in place of GE 261.

Abhijit Dandekar, February 8, 2013

Revised 4.14.15 LLI