PETROLEUM ENGINEERING
B.S. Degree Requirements
134 Credits

GENERAL REQUIREMENTS

COMMUNICATIONS:- (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.
Anh 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 200X (4)____ Math 202X (4)____
Math 201X (4)____ Math 302 (3)____
Math 310 (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 (24)* ____
TOTAL TO DATE: ______
TO BE COMPLETED: ______
*A minimum of 24 UAF credits

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:*- (42)
Pete 103 (1)____
Pete 104 (1)____
Pete 205 (1)____
Pete 206 (1)____
Pete 301 (4)____
Pete 302 (3)____
Pete 303 (1)____(W)
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 467 (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)
E.S. 201 (3)____
E.S. 208 (4)____
E.S. 331 (3)____
E.S. 341 (4)____
E.S. 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 G.E. 261(3)____
B.Geos 370 (4)____

6. Complete the Fundamentals of
Engineering Exam:__________________

Credits for core/general requirements: 62
Credits required for major: 72-73
Total credits required for degree: 134
BACHELOR OF SCIENCE IN PETROLEUM ENGINEERING

First Year: Fall

- CHEM 105X-General Chemistry 4
- ENGL 111X-Intro to Acad Writing 3
- LS 101X 1
- MATH 200X-Calculus I 4
- PETE 103-Survey of the Energy Industry 1
- Perspectives Core (1 of 6) 3

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 201X-Calculus II 4
- PETE 104- Fundamentals of Petroleum 1

Second Year: Fall

- ENGL 211X/213X-Academic Writing 3
- MATH 202X-Calculus III 4
- PETE 205-Intro to Petr. Drilling & Prod. 1
- PHYS 211X-General Physics I 4
- Perspectives Core (2 of 6) 3

Second Year: Spring

- ES 208-Mechanics 4
- ES 346-Basic Thermodynamics 3
- MATH 302-Differential Equations 3
- PETE 206- Intro to Petroleum Prod. 1
- PHYS 212X-General Physics 4
- Perspectives Core (3 of 6) 3

Third Year: Fall

- ES 331-Mechanics of Materials 3
- ES 341-Fluid Mechanics 4
- MATH 310-Numerical Analysis 3
- PETE 301-Reservoir Rock & Fluid Prop. 4
- Perspectives Core (4 of 6) 3

Third Year: Spring

- GEOS 370-Struct. Geol. for Petr. Engr. 4
- 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

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 487-Petroleum Project Design 2
- Perspectives Core (6 of 6) 3

Fourth Year: Spring

- PETE 421-Reservoir Characterization 3
- PETE 456-Pet. Eval. and Econ. Dec 3
- PETE 478-Well Test Analysis 2
- PETE 489-Reservoir Simulation 2
- Engineering Elective** 3
- Technical Elective*** 3

**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.