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)

Credits for core/general requirements:  62
Credits required for major:  72-73
Total credits required for degree:  134

*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 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)
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

(pete) 8/18/2008
# 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

### Credits: 16

## 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

### Credits: 18

## 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

### Credits: 15

## 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

### Credits: 17

## 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

### Credits: 17

## 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

### Credits: 18

## 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

### Credits: 16

## 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

### Credits: 16

**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.**