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## Petroleum Engineering, B.S.P.E.



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**Degree Awarded:** Bachelor of Science in Petroleum Engineering

**Total Credit Hours:** 127

**Career Opportunities:** Petro-chemical industry, Oil and gas companies, research facilities, private engineering and consulting firms

**Note(s):**

A grade of "C" or better is required in all major department (PETE) and engineering courses that are used toward the degree.

A minimum of 2.0 cumulative average (major GPA) is required on all hours attempted in the major department (PETE) and engineering courses that apply toward the degree.

Students are responsible for completing all course prerequisites before enrolling in a course.

### General Education Core Curriculum, Petroleum Engineering

Core Curriculum

#### Freshman Year

##### Required Courses

- UNIV 100 – First Year Seminar **3 Credit(s)**
- CHEM 107 – General Chemistry I **3 Credit(s)**
- CHEM 108 – General Chemistry II **3 Credit(s)**
- CHEM 115 – General Chemistry Laboratory **2 Credit(s)**
- ENGL 101 – Introduction to Academic Writing **3 Credit(s)**
- ENGL 102 – Writing and Research About Culture **3 Credit(s)**
- GEOL 111 – Physical Geology **4 Credit(s)**
- MATH 270 – Calculus I **4 Credit(s)**
- MATH 301 – Calculus II **4 Credit(s)**
- PETE 101 – Introduction to Petroleum Engineering **1 Credit(s)**

**Total: 30 Credits**

#### Sophomore Year

##### Required Courses

- ECON 300 – Fundamentals of Economics **3 Credit(s)**
- ENGL 365 – Technical Writing **3 Credit(s)**
- ENGR 201 – Electrical Circuits **3 Credit(s)**
- ENGR 218 – Statics and Strength of Materials **3 Credit(s)**
- GEOL 315 – Structural Geology for Engineers **4 Credit(s)**
- MATH 350 – Differential Equations **3 Credit(s)**

- PETE 211 – Drilling Fluids **3 Credit(s)**
- PETE 212 – Drilling Fluids Laboratory **1 Credit(s)**
- PHYS 201 – General Physics I **4 Credit(s)**

## Electives

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### Biology (3 Credits)

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Choose in consultation with academic advisor.

### English Literature (3 Credits)

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Choose from the General Education Core list of Literature courses in consultation with academic advisor.

**Total: 33 Credits**

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## Junior Year

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### Required Courses

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- ECON 430G – Industrial Economics and Finance **3 Credit(s)**
- ENGR 301 – Thermodynamics **3 Credit(s)**
- ENGR 305 – Transport Phenomena **3 Credit(s)**
- PETE 321 – Phase Behavior of Hydrocarbon Systems **3 Credit(s)**
- PETE 322 – Reservoir Fluid Flow **3 Credit(s)**
- PETE 323 – Reservoir Mechanics Laboratory **1 Credit(s)**
- PETE 313 – Petrophysics and Formation Evaluation **3 Credit(s)**
- PETE 314 – Petrophysics and Formation Evaluation Laboratory **1 Credit(s)**
- PETE 311 – Drilling Engineering **3 Credit(s)**
- PETE 312 – Drilling Laboratory **1 Credit(s)**

## Electives

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### History (3 Credits)

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Choose from the General Education Core list of History courses in consultation with academic advisor.

### Fine Arts (3 Credits)

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Choose from the General Education Core list of Fine Arts courses in consultation with academic advisor.

### Mathematics (3 Credits)

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Choose from the Department of Petroleum Engineering approved list of electives in consultation with academic advisor.

**Total: 33 Credits**

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## Senior Year

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### Required Courses

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- PETE 401 – Senior Design Project I **1 Credit(s)**
- PETE 402 – Senior Design Project II **1 Credit(s)**
- PETE 433 – Natural Gas Engineering **3 Credit(s)**
- PETE 423 – Improved Petroleum Recovery Processes **3 Credit(s)**
- PETE 411G – Well Planning and Control **3 Credit(s)**

- PETE 424 – Petroleum Project Economics, Risk Analysis, and Property Evaluation **3 Credit(s)**
- PETE 431G – Petroleum Production Engineering **3 Credit(s)**
- PETE 432 – Petroleum Production Laboratory **1 Credit(s)**
- PETE 434 – Well Completion **3 Credit(s)**
- PETE 421G – Reservoir Engineering **3 Credit(s)**
- PETE 422 – Reservoir Laboratory **1 Credit(s)**

## Electives

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### Petroleum Engineering/Geology (3 Credits)

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Requires approval of Department Head.

### Petroleum Engineering (3 Credits)

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Requires approval of Department Head.

## Total: 31 Credits

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