# PETROLEUM ENGINEERING
## 2024-2026 CATALOG

Suggested Arrangement of Courses for Eight-Semester Program

## FIRST YEAR

| Fall Semester | Semester Hours |
|---|---|
| CH 301, *Principles of Chemistry I* | 3 |
| GEO 303, *Introduction to Geology* | 3 |
| M 408C, *Differential and Integral Calculus* | 4 |
| UGS 302/303, *First-Year Signature Course* | 3 |
| RHE 306, *Rhetoric and Writing* | 3 |
| TOTAL | **16** |

| Spring Semester | Semester Hours |
|---|---|
| CH 302, *Principles of Chemistry II* | 3 |
| PGE 301, *Engineering, Energy and the Environment* | 3 |
| M 408D, *Sequences, Series, and Multivariable Calc.* | 4 |
| PHY 303K, *Engineering Physics I* | 3 |
| PHY 105M, *Laboratory for Physics 303K* | 1 |
| US History core course | 3 |
| TOTAL | **17** |

## SECOND YEAR

| Fall Semester | Semester Hours |
|---|---|
| PHY 303L, *Engineering Physics II* | 3 |
| PHY 105N, *Laboratory for Physics II* | 1 |
| E M 306, *Statics* | 3 |
| M 427J, *Differential Equations with Linear Algebra* | 4 |
| PGE 311, *Numerical Methods and Programming* | 3 |
| PGE 326, *Thermodynamics and Phase Behavior* | 3 |
| TOTAL | **17** |

| Spring Semester | Semester Hours |
|---|---|
| E M 319, *Mechanics of Solids* | 3 |
| GEO 316P, *Sedimentary Rocks* | 3 |
| PGE 333T, *Engineering Communication* | 3 |
| PGE 427, *Properties of Petroleum Fluids* | 4 |
| Visual and Performing Arts core course | 3 |
| TOTAL | **16** |

## THIRD YEAR

| Fall Semester | Semester Hours |
|---|---|
| PGE 323K, *Reservoir Engineering I - Primary Recovery* | 3 |
| PGE 430, *Drilling and Well Completions* | 4 |
| PGE 424, *Petrophysics* | 4 |
| PGE 322K, *Transport Phenomena in Geosystems* | 3 |
| Social and Behavioral Science core course | 3 |
| TOTAL | **17** |

| Spring Semester | Semester Hours |
|---|---|
| PGE 323L, *Reservoir Engineering II Secondary and Tertiary Recovery* | 3 |
| PGE 362, *Production Technology and Design* | 3 |
| PGE 358, *Principles of Formation Evaluation* | 3 |
| PGE 338, *Geostatistics and Data Analysis* | 3 |
| GOV 310L. | 3 |
| TOTAL | **15** |

## FOURTH YEAR

| Fall Semester | Semester Hours |
|---|---|
| PGE 334, *Reservoir Geomechanics* | 3 |
| PGE 365, *Resource Economics and Valuation* | 3 |
| Approved Technical Area Elective | 3 |
| Approved Technical Area Elective | 3 |
| E 316L, M, N or P. | 3 |
| TOTAL | **15** |

| Spring Semester | Semester Hours |
|---|---|
| PGE 373L, *Geosystems Engineering Design and Analysis* | 3 |
| Approved Technical Area Elective | 3 |
| Approved Technical Area Elective. | 3 |
| GOV 312L | 3 |
| US History core course | 3 |
| TOTAL | **15** |