

# PETROLEUM ENGINEERING

## 2022-2024 CATALOG

Suggested Arrangement of Courses for Eight-Semester Program

### FIRST YEAR

<u>Fall Semester</u>	Semester Hours	<u>Spring Semester</u>	Semester Hours
CH 301, <i>Principles of Chemistry I</i> . . . . .	3	CH 302, <i>Principles of Chemistry II</i> . . . . .	3
GEO 303, <i>Introduction to Geology</i> . . . . .	3	PGE 301, <i>Engineering, Energy and the Environment</i> . . .	3
M 408C, <i>Differential and Integral Calculus</i> . . . . .	4	M 408D, <i>Sequences, Series, and Multivariable Calc.</i> . . .	4
UGS 302/303, <i>Undergraduate Studies Course</i> . . . . .	3	PHY 303K, <i>Engineering Physics I</i> . . . . .	3
RHE 306, <i>Rhetoric and Composition</i> . . . . .	3	PHY 105M, <i>Laboratory for Physics 303K</i> . . . . .	1
TOTAL . . . . .	16	US History Core Class . . . . .	3
		TOTAL . . . . .	17

### SECOND YEAR

<u>Fall Semester</u>	Semester Hours	<u>Spring Semester</u>	Semester Hours
PHY 303L, <i>Engineering Physics II</i> . . . . .	3	E M 319, <i>Mechanics of Solids</i> . . . . .	3
PHY 105N, <i>Laboratory for Physics II</i> . . . . .	1	GEO 316P, <i>Sedimentary Rocks</i> . . . . .	3
E M 306, <i>Statics</i> . . . . .	3	PGE 333T, <i>Engineering Communication.</i> . . . . .	3
M 427J, <i>Differential Equations and Linear Algebra</i> . . .	4	PGE 427, <i>Properties of Petroleum Fluids</i> . . . . .	4
PGE 311, <i>Numerical Methods and Programming</i> . . . . .	3	Visual and Performing Arts Core Class . . . . .	3
PGE 326, <i>Thermodynamics and Phase Behavior</i> . . . . .	3		
TOTAL . . . . .	17	TOTAL . . . . .	16

### THIRD YEAR

<u>Fall Semester</u>	Semester Hours	<u>Spring Semester</u>	Semester Hours
PGE 323K, <i>Reservoir Engineering I - Primary Recovery</i> . . . . .	3	PGE 323L, <i>Reservoir Engineering II Secondary and Tertiary Recovery</i> . . . . .	3
PGE 430, <i>Drilling and Well Completion</i> . . . . .	4	PGE 362, <i>Production Technology and Design</i> . . . . .	3
PGE 424, <i>Petrophysics</i> . . . . .	4	PGE 358, <i>Principles of Formation Evaluation</i> . . . . .	3
PGE 322K, <i>Transport Phenomena</i> . . . . .	3	PGE 338, <i>Introduction to Geostatistics.</i> . . . . .	3
Social Science Core Class . . . . .	3	GOV 310L . . . . .	3
TOTAL . . . . .	17	TOTAL . . . . .	15

### FOURTH YEAR

<u>Fall Semester</u>	Semester Hours	<u>Spring Semester</u>	Semester Hours
PHY 334, <i>Reservoir Geomechanics</i> . . . . .	3	PGE 373L, <i>Geosystems Engineering Design and Analysis</i> . . . . .	3
PGE 365, <i>Resource Economics and Valuation</i> . . . . .	3	Approved Technical Area Elective . . . . .	3
Approved Technical Area Elective . . . . .	3	Approved Technical Area Elective . . . . .	3
Approved Technical Area Elective . . . . .	3	GOV 312L . . . . .	3
E 316L,M,N or P . . . . .	3	US History Core Class . . . . .	3
TOTAL . . . . .	15	TOTAL . . . . .	15