

# Suggested Arrangement of Courses, Petroleum Engineering (BSPE)

Requirements		Hours
<b>1st Semester</b>		
GEO 303	Introduction to Geology (Major)	3
CH 301	Principles of Chemistry I (Major)	3
M 408C	Differential and Integral Calculus (Core) <sup>020</sup>	4
RHE 306	Rhetoric and Writing (Core) <sup>010</sup>	3
UGS 302	First-Year Signature Course (Core) <sup>090</sup>	3
or UGS 303	First-Year Signature Course	
<b>2nd Semester</b>		
PHY 303K & PHY 105M	Engineering Physics I and Laboratory For Physics 302K, 303K, and 317K (Core)	4
M 408D	Sequences, Series, and Multivariable Calculus (Major)	4
PGE 301	Engineering, Energy, and the Environment (Major)	3
CH 302	Principles of Chemistry II (Major)	3
Social and Behavioral Sciences (Core) <sup>080</sup>		3
<b>3rd Semester</b>		
PHY 303L & PHY 105N	Engineering Physics II and Laboratory For Physics 302L, 303L, and 317L (Core)	4
E M 306	Statics (Major)	3
M 427J	Differential Equations with Linear Algebra (Major)	4
PGE 311	Numerical Methods and Programming (Major)	3
PGE 326	Thermodynamics and Phase Behavior (Major)	3
<b>4th Semester</b>		
GEO 316P	Sedimentary Rocks (Major)	3
E M 319	Mechanics of Solids (Major)	3
PGE 333T	Engineering Communication (Major)	3
PGE 427	Properties of Petroleum Fluids (Major)	4
Visual and Performing Arts (Core) <sup>050</sup>		3
<b>5th Semester</b>		
PGE 323K	Reservoir Engineering I: Primary Recovery (Major)	3
PGE 424	Petrophysics (Major)	4
PGE 430	Drilling and Well Completions (Major)	4
PGE 322K	Transport Phenomena in Geosystems (Major)	3
American and Texas Government (Core) <sup>070</sup>		3
<b>6th Semester</b>		
PGE 323L	Reservoir Engineering II: Secondary and Tertiary Recovery (Major)	3

PGE 358	Principles of Formation Evaluation (Major)	3
PGE 362	Production Technology and Design (Major)	3
PGE 338	Geostatistics and Data Analysis (Major)	3
U.S. History (Core) <sup>060</sup>		3
<b>7th Semester</b>		
PGE 334	Reservoir Geomechanics (Major)	3
PGE 365	Resource Economics and Valuation (Major)	3
Technical Area Elective course (Major)		3
Technical Area Elective course (Major)		3
American and Texas Government (Core) <sup>070</sup>		3
<b>8th Semester</b>		
PGE 373L	Geosystems Engineering Design and Analysis (Major)	3
Technical Area Elective course (Major)		3
Technical Area Elective course (Major)		3
E 316L	British Literature (Core) <sup>040</sup>	3
or E 316M	American Literature	
or E 316N	World Literature	
or E 316P	Masterworks of Literature	
U.S. History (Core) <sup>060</sup>		3
<b>Total Hours</b>		<b>128</b>

*Four-year degree suggestion (for planning purposes only).*

*Currently enrolled students should meet with their academic advisor.*

Course categories: Core, General Education<sup>†</sup>, Major, Elective, Opportunity

Core Component Areas: <sup>010</sup> Communication; <sup>020</sup> Mathematics; <sup>030</sup> Natural Science and Technology, Part I; <sup>040</sup> Humanities; <sup>050</sup> Visual and Performing Arts; <sup>060</sup> U.S. History; <sup>070</sup> American and Texas Government; <sup>080</sup> Social and Behavioral Sciences; <sup>090</sup> First-Year Signature Course; <sup>093</sup> Natural Science and Technology, Part II

Undergraduate Degree Program listing

<sup>†</sup> Effective April 2025, UT Austin no longer requires Skills and Experience flags.