

Suggested Arrangement of Courses, Geosystems Engineering (BSGE)

Requirements		Hours
1st Semester		
CH 301	Principles of Chemistry I (Major)	3
GEO 303	Introduction to Geology (Major)	3
M 408C	Differential and Integral Calculus (Core) ⁰²⁰	4
RHE 306	Rhetoric and Writing (Core) ⁰¹⁰	3
UGS 302	First-Year Signature Course (Core) ⁰⁹⁰	3
2nd Semester		
CH 302	Principles of Chemistry II (Major)	3
M 408D	Sequences, Series, and Multivariable Calculus (Major)	4
PHY 303K & PHY 105M	Engineering Physics I and Laboratory For Physics 302K, 303K, and 317K (Core)	4
PGE 333T	Engineering Communication (General Education)	3
U.S. History (Core) ⁰⁶⁰		3
3rd Semester		
GEO 416E	Solid Earth Processes (Major)	4
GEO 416S	Earth and Planetary Processes Through Time (Major)	4
E M 306	Statics (Major)	3
M 427J	Differential Equations with Linear Algebra (Major)	4
4th Semester		
E M 319	Mechanics of Solids (Major)	3
PGE 311	Numerical Methods and Programming (Major)	3
PGE 322K	Transport Phenomena in Geosystems (Major)	3
PGE 326	Thermodynamics and Phase Behavior (Major)	3
PHY 303L & PHY 105N	Engineering Physics II and Laboratory For Physics 302L, 303L, and 317L (General Education)	4
5th Semester		
GEO 476K	Groundwater Hydrology (Major)	4
PGE 430	Drilling and Well Completions (Major)	4
PGE 323K	Reservoir Engineering I: Primary Recovery (Major)	3
PGE 424	Petrophysics (Major)	4
Social and Behavioral Sciences (Core) ⁰⁸⁰		3
6th Semester		
GEO 416W	Climate, Water, and the Environment (Major)	4
GEO 420K	Introduction to Field and Stratigraphic Methods (Major)	4
PGE 334	Reservoir Geomechanics (Major)	3

PGE 358	Principles of Formation Evaluation (Major)	3
American and Texas Government (Core) ⁰⁷⁰		3
7th Semester		
GEO 376L	Field Methods in Groundwater Hydrology (Major)	3
8th Semester		
Engineering Technical Elective (Major)		3
Geoscience Technical Elective (Major)		3
PGE 365	Resource Economics and Valuation (Major)	3
Engineering Technical Elective (Major)		3
E 316L	British Literature (Core) ⁰⁴⁰	3
or E 316M	American Literature	
or E 316N	World Literature	
or E 316P	Masterworks of Literature	
9th Semester		
PGE 373L	Geosystems Engineering Design and Analysis (Major)	3
Geoscience Technical Elective (Major)		3
American and Texas Government (Core) ⁰⁷⁰		3
U.S. History (Core) ⁰⁶⁰		3
Visual and Performing Arts (Core) ⁰⁵⁰		3
Total Hours		132

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

Currently enrolled students should meet with their academic advisor.

Course categories: Core, General Education [†], Major, Elective, Opportunity

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

Undergraduate Degree Program listing

[†] Effective April 2025, UT Austin no longer requires Skills and Experience flags.