

GEOSYSTEMS ENGINEERING

2024-2026 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 303/401, <i>Physical Geology</i>	3/4	PGE 333T, <i>Engineering Communication</i>	3
M 408C, <i>Differential and Integral Calculus</i>	4	M 408D, <i>Sequences, Series, & Multivariable Calculus</i>	4
RHE 306, <i>Rhetoric and Writing</i>	3	PHY 303K, <i>Engineering Physics I</i>	3
UGS 302/303, <i>First-Year Signature Course</i>	3	PHY 105M, <i>Laboratory for Physics 303K</i>	1
		US History core course	3
TOTAL	16-17	TOTAL	17

SECOND YEAR

<u>Fall Semester</u>	Semester Hours	<u>Spring Semester</u>	Semester Hours
GEO 416E, <i>Solid Earth Processes</i>	4	E M 319, <i>Mechanics of Solids</i>	3
GEO 416S, <i>Earth and Planetary Processes</i>	4	PHY 303L, <i>Engineering Physics II</i>	3
M 427J, <i>Differential Equations with Linear Algebra</i>	4	PHY 105N, <i>Laboratory for Physics II</i>	1
E M 306, <i>Statics</i>	3	PGE 311, <i>Numerical Methods and Programming</i>	3
TOTAL	15	PGE 326, <i>Thermodynamics and Phase Behav</i>	3
		GEO 416W, <i>Climate, Water, and the Envir</i>	4
		TOTAL	17

THIRD YEAR

<u>Fall Semester</u>	Semester Hours	<u>Spring Semester</u>	Semester Hours
PGE 322K, <i>Transport Phenomena in Geosystems</i>	3	GEO 420K, <i>Introduction to Field and</i>	4
PGE 323K, <i>Reservoir Engineering I- Primary Recovery</i>	3	PGE 358, <i>Formation Evaluation</i>	3
PGE 424, <i>Petrophysics</i>	4	PGE 334, <i>Reservoir Geomechanics</i>	3
GEO 476K, <i>Groundwater Hydrology</i>	4	<i>Engineering Technical Elective</i>	3
Social and Behavioral Science core course	3	GOV 310L	3
TOTAL	17	TOTAL	16
<u>May Term:</u>			
GEO 376L, <i>Field Methods in Groundwater Hydrology</i>	3		

FOURTH YEAR

<u>Fall Semester</u>	Semester Hours	<u>Spring Semester</u>	Semester Hours
PGE 365, <i>Resource Economics and Valuation</i>	3	PGE 373L, <i>Geosystems Engineering Design and Analysis</i>	3
PGE 430, <i>Drilling and Well Completions</i>	4	<i>Geoscience Technical Elective</i>	3
<i>Engineering Technical Elective</i>	3	Visual and Performing Arts core course	3
<i>Geoscience Technical Elective</i>	3	GOV 312L	3
E 316L, M, N or P.	3	US History core course.	3
TOTAL	16	TOTAL	15