GEOSYSTEMS ENGINEERING AND HYDROGEOLOGY
2018-2020 CATALOG

Suggested Arrangement of Courses for Eight-Semester Program

FIRST YEAR

Fall Semester	Semester Hours
CH 301, *Principles of Chemistry* I	3
GEO 401/303, *Introduction to Geology*	4/3
M 408C, *Differential and Integral Calculus*	4
RHE 306, *Rhetoric and Composition*	3
UGS 302/303, Undergraduate Studies Course	3
TOTAL	**16/17**

Spring Semester	Semester Hours
CH 302, *Principles of Chemistry II*	3
PGE 333T, *Engineering Communications*	3
M 408D, *Sequences, Series, & Multivariable Calculus*	4
PHY 303K, *Engineering Physics* I	3
PHY 103M, *Laboratory for Physics 303K*	1
US History Elective	3
TOTAL	**17**

SECOND YEAR

Fall Semester	Semester Hours
GEO 416K, *Earth Materials*	4
GEO 416M, *Sedimentary Rocks*	4
M 427K, *Advanced Calculus for Applications I*	4
PGE 326, *Thermodynamics and Phase Behavior*	3
TOTAL	**15**

Spring Semester	Semester Hours
E M 306, *Statics*	3
PHY 303L, *Engineering Physics II*	3
PHY 103N, *Laboratory for Physics II*	1
PGE 310, *Formation and Solution of Geosystems Engineering Problems*	3
PGE 427, *Properties of Petroleum Fluids*	4
Visual or Performing Arts Elective	3
TOTAL	**17**

THIRD YEAR

Fall Semester	Semester Hours
PGE 322K, *Transport Phenomena*	3
PGE 323K, *Reservoir Engineering Primary Recovery*	3
PGE 424, *Petrophysics*	4
GEO 476K, Groundwater Hydrology	4
E M 319, *Mechanics of Solids*	3
TOTAL	**17**
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Summer Session:
GEO 376L, *Field Methods in Groundwater Hydrology* 3

Spring Semester	Semester Hours
GEO 420K, *Introduction to Field and Stratigraphic Methods*	4
PGE 323L, *Reservoir Engineering II-Secondary and Tertiary Recovery*	3
C E 357, *Geotechnical Engineering*	3
PGE 358, *Principles of Formation Evaluation*	3
GOV 310L, American Government	3
TOTAL	**16**

FOURTH YEAR

Fall Semester	Semester Hours
PGE 365, *Resource Economics and Valuation*	3
PGE Approved Technical Elective	3
GEO 376S, *Physical Hydrology*	3
GEO 428, *Structural Geology*	4
ENG 316L,M,N or P, Masterworks of Literature	3
TOTAL	**16**

Spring Semester	Semester Hours
PGE 373L, *Geosystems Engineering Design and Analysis*	3
GEO Approved Technical Rlective	3
Social Science Elective	3
GOV 312L, Issues & Policies in American Gov	3
US History Elective	3
TOTAL	**15**