

GEOSYSTEMS ENGINEERING AND HYDROGEOLOGY

2014-2016 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 333T <i>Technical Writing</i>	3
M 408C, <i>Differential and Integral Calculus</i>	4	M 408D, <i>Sequences, Series, & Multivariable Calculus</i> 4	4
RHE 306, <i>Rhetoric and Composition</i>	3	PHY 303K, <i>Engineering Physics I</i>	3
UGS 302/303, <i>Undergraduate Studies Course</i>	3	PHY 103M, <i>Laboratory for Physics 303K</i>	1
TOTAL.....	16	American History.....	3
		TOTAL	17

SECOND YEAR

<u>Fall Semester</u>	Semester Hours	<u>Spring Semester</u>	Semester Hours
GEO 416K, <i>Earth Materials</i>	4	E M 319, <i>Mechanics of Solids</i>	3
GEO 416M, <i>Sedimentary Rocks</i>	4	PHY 303L, <i>Engineering Physics II</i>	3
M 427K, <i>Advanced Calculus for Applications I</i>	4	PHY 103N, <i>Laboratory for Physics II</i>	1
E M 306, <i>Statics</i>	3	PGE 310, <i>Formation and Solution of Geosystems Engineering Problems</i>	3
TOTAL.....	15	PGE 326, <i>Thermodynamics and Phase Behavior</i>	3
		PGE 427, <i>Properties of Petroleum Fluids</i>	4
		TOTAL.....	17

THIRD YEAR

<u>Fall Semester</u>	Semester Hours	<u>Spring Semester</u>	Semester Hours
PGE 323K, <i>Reservoir Engineering I - Primary Recovery</i>	3	GEO 420K, <i>Introduction to Field and Stratigraphic Methods</i>	4
GEO 476K, <i>Groundwater Hydrology</i>	4	PGE 323L, <i>Reservoir Engineering II - Secondary and Tertiary Recovery</i>	3
PGE 424, <i>Petrophysics</i>	4	C E 357, <i>Geotechnical Engineering</i>	3
PGE 322K, <i>Transport Phenomena</i>	3	PGE 368, <i>Fundamentals of Well Logging</i>	3
Social Science elective.....	3	GOV 310L, <i>American Government</i>	3
TOTAL	17	TOTAL	16

Summer Session:

GEO 376L, *Field Methods in Groundwater Hydrology* 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
Approved Engineering Technical Elective	3	Approved Geology Elective.....	3
GEO 428, <i>Structural Geology</i>	4	Approved visual or performing arts elective.....	3
GEO 376S <i>Physical Hydrology</i>	3	GOV 312L, <i>Issues & Policies in American Gov</i>	3
ENG 316L,N or P, <i>Masterworks of Literature</i>	3	American history elective	3
TOTAL	16	TOTAL	15