

GEOSYSTEMS ENGINEERING AND HYDROGEOLOGY 2010-2012 CATALOG

Suggested Arrangement of Courses for Eight Semester Program
132 credit hours

First Year

<u>Fall Semester</u>	<u>Semester Hours</u>	<u>Spring Semester</u>	<u>Semester Hours</u>
CH 301, <i>Principles of Chemistry I</i>	3	CH 302, <i>Principles of Chemistry II</i>	3
M 408C, <i>Differential and Integral Calculus</i>	4	GEO 416M, <i>Sedimentary Rocks</i>	4
RHE 306, <i>Rhetoric and Writing</i> (English Composition)	3	M 408D, <i>Sequences, Series, and Multivariable Calculus</i>	4
GEO 303, <i>Introduction to Geology</i>	3	PHY 303K, <i>Engineering Physics I</i>	3
UGS 302 <u>or</u> UGS 303 (First-Year Signature Course)	3	PHY 103M, <i>Laboratory for Physics 303K</i>	1
TOTAL.....	16	TOTAL	15

Second Year

<u>Fall Semester</u>	<u>Semester Hours</u>	<u>Spring Semester</u>	<u>Semester Hours</u>
PGE 310, <i>Formation and Solution of Geosys Eng Problems</i>	3	PGE 333T, <i>Engineering Communications</i>	3
E M 306, <i>Statics</i>	3	PGE 322K, <i>Transport Phenomena in Geosystems</i>	3
M 427K, <i>Advanced Calculus for Applications I</i>	4	PGE 312, <i>Physical and Chemical Behavior of Fluids I</i>	3
GEO 416K, <i>Earth Materials</i>	4	E M 319, <i>Mechanics of Solids</i>	3
American History.....	3	PHY 303L, <i>Engineering Physics II</i>	3
TOTAL.....	17	PHY 103N, <i>Laboratory for Physics 303L</i>	1
		TOTAL	16

Third Year

<u>Fall Semester</u>	<u>Semester Hours</u>	<u>Spring Semester</u>	<u>Semester Hours</u>
PGE 323K, <i>Reservoir Engineering I</i>	3	PGE 323L, <i>Reservoir Engineering II</i>	3
PGE 424, <i>Petrophysics</i>	4	PGE 368, <i>Fundamentals of Well Logging</i>	3
PGE 326, <i>Thermodynamics and Phase Behavior</i>	3	GEO 420K, <i>Intro to Field and Stratigraphic Methods</i>	4
GEO 476K, <i>Groundwater Hydrology</i>	4	C E 357, <i>Geotechnical Engineering</i>	3
Approved Social and Behavioral Science Elective	3	GOV 310L (American and Texas Government).....	3
TOTAL.....	17	TOTAL	16

<u>Summer Session (May)</u>	<u>Semester Hours</u>
GEO 376L, <i>Field Methods in Groundwater Hydrogeology</i>	3
TOTAL.....	3

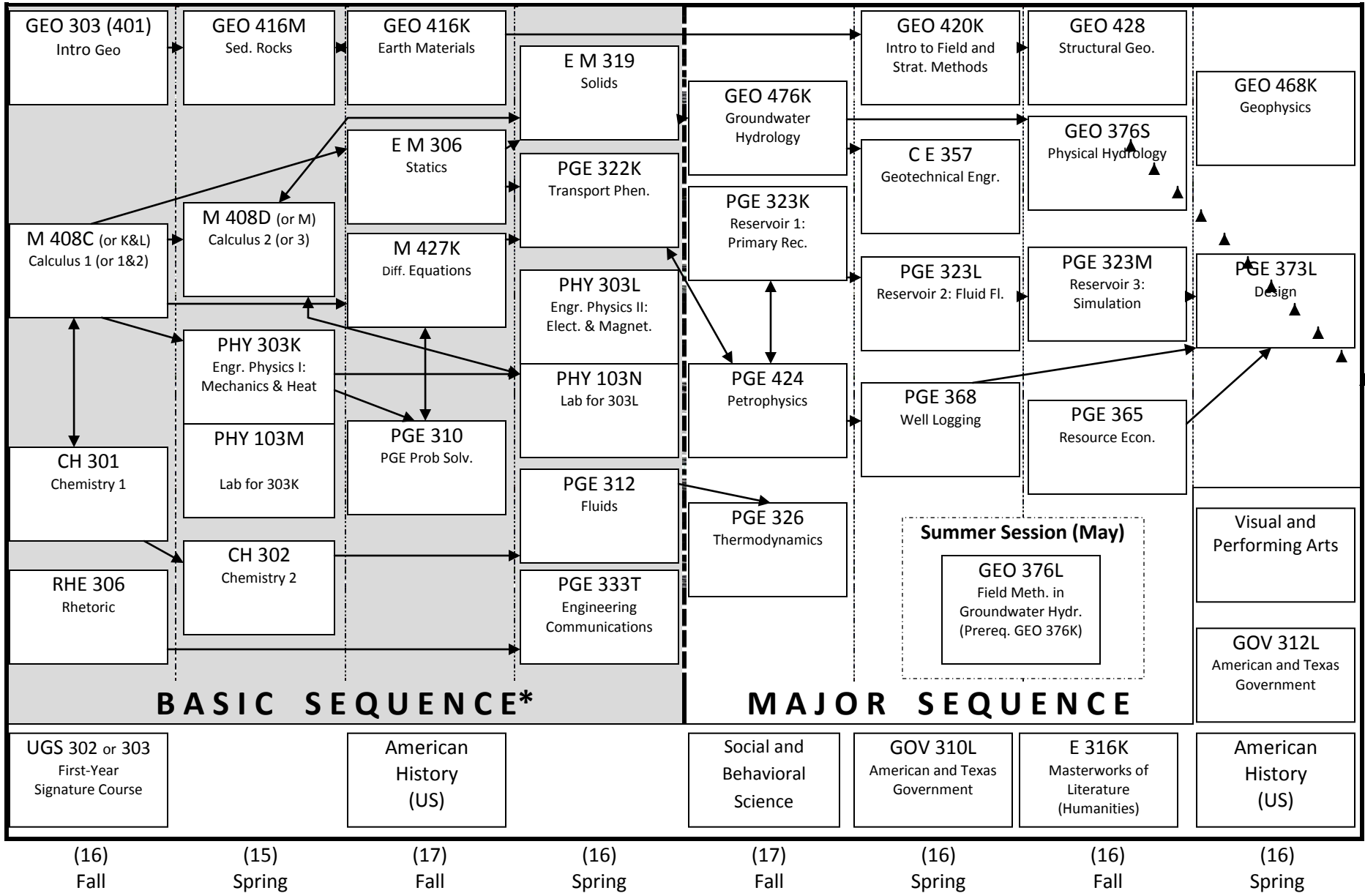
Fourth Year

<u>Fall Semester</u>	<u>Semester Hours</u>	<u>Spring Semester</u>	<u>Semester Hours</u>
PGE 323M, <i>Reservoir Engineering III</i>	3	PGE 373L, <i>Geosystems Engineering Design and Analysis I</i> ... 3	3
PGE 365, <i>Resource Economics and Valuation</i>	3	GEO 468K, <i>Geophysics for Geological Sciences</i>	4
GEO 376S, <i>Physical Hydrology</i>	3	Approved Visual and Performing Arts Elective	3
GEO 428, <i>Structural Geology</i>	4	American History	3
E 316K, <i>Masterworks of Literature</i> (Humanities).....	3	GOV 312L (American and Texas Government).....	3
TOTAL.....	16	TOTAL	16

NOTES:

- Check with the Undergraduate Office (CPE 3.104) for a list of approved elective courses.
- This Suggested Arrangement of Courses slightly differs from the 2010-12 Catalog, but all requirements are the same.

GEOSYSTEMS ENGINEERING UNDERGRADUATE CURRICULUM 2010-2012



*C- or better is required of all basic sequence and geology prerequisite courses

132 total hours