

Bachelor of Science in Geosciences
Geology Concentration
2014-2015 Catalog

A grade of C- or better must be earned to meet prerequisite requirements and to apply to major, minor or adjunct. Prerequisites shown in ().

<p>FIRST YEAR Fall-15 hours</p> <p>_____ GEOL 1303 Physical Geology</p> <p>_____ GEOL 1101 Physical Geology Lab</p> <p>_____ MATH 1451 Calculus I (MPE code 7 or higher, SATM 660, MATH 1321- B, MATH 1550-C;</p> <p>_____ CHEM 1307 Principles of Chemistry I (CHEM Placement exam score of 60% or higher)</p> <p>_____ CHEM 1107 Principles of Chemistry lab (CHEM Placement exam score of 60% or higher)</p> <p>_____ ENGL 1301 Essentials. of Col. Rhetoric</p>	<p><i>Spring-15 hours</i></p> <p>_____ GEOL 2401 Historical Geology (GEOL 1303 +1101)</p> <p>_____ CHEM 1308 Principles of Chemistry II (CHEM 1307+1107; C or better)</p> <p>_____ CHEM 1108 Principles of Chemistry II lab (CHEM 1307+1107; C or better)</p> <p>_____ MATH 1452 Calculus II (MATH 1451)</p> <p>_____ ENGL 1302 (ENG 1301)</p>
<p>SECOND YEAR Fall-14 hours</p> <p>_____ GEOL 3401 Mineralogy and Petrology (GEOL 1303+1101, 2401, CHEM 1307+1107, 1308 +1108)</p> <p>_____ GPH 3300 Geophysics (GEOL 1303 +1101, MATH 1451 C or better)</p> <p>_____ PHYS 1403 (or 1408) (MATH 1550 or 1320 +1321) (MATH 1451)</p> <p>_____ Foreign Language _____ 2301 (F. Language 1507 or 1502)</p>	<p><i>Spring-16 hours</i></p> <p>_____ GCH 3303 Introduction to Geochemistry (Math 1452, CHEM 1308 +1108, GEOL 3401)</p> <p>_____ GEOL 4320 Optical Mineralogy (GEOL 3401)</p> <p>_____ PHYS 1404 (or 2401) (PHYS 1403 or 1408) (MATH 1452)</p> <p>_____ Foreign Language _____ 2302</p> <p>_____ HIST 2300 US History Pre 1877</p>
<p>THIRD YEAR Fall-14 hours</p> <p>_____ GEOL 3402 Structural Geology (GEOL 3401 PHYS 1403 or 1408),</p> <p>_____ GEOL 4325 Sedimentology & Stratigraphy (GEOL 2401, GEOL 3401, GEOL 4320)</p> <p>_____ POLS 1301 American Govt Org</p> <p>_____ English Literature</p> <p>_____ Personal Fitness and Wellness</p>	<p><i>Spring- 14 hours</i></p> <p>_____ GEOL 4321 Igneous and Meta Petrology (GCH 3303, GEOL 4320)</p> <p>_____ GEOL 4201 Sedimentary Field Methods (GEOL 4325, 3402)</p> <p>_____ English Literature</p> <p>_____ POLS 2302 American Govt Org</p> <p>_____ Personal Fitness and Wellness</p>
<p>Summer I _____ GEOL 4301 Advanced Field Methods (GEOL 3402, 4325, 4321, 4201: all with a C or better)</p>	
<p>FORTH YEAR Fall- 13 hours</p> <p>_____ GEOL 4101 Undergraduate Seminar (Senior Standing)</p> <p>_____ GEOS Elective Jr/Sr</p> <p>_____ Minor elective Jr/Sr</p> <p>_____ Social and Behavioral Sciences Elective* (Select choice that also meet Multicultural)</p> <p>_____ Oral Com Elective</p>	<p><i>Spring- 15 hours</i></p> <p>_____ GEOL 4312 Undergraduate Research (Senior Standing)</p> <p>_____ HIST 2301 US History since 1877</p> <p>_____ Creative Arts Elective</p> <p>_____ Minor elective Jr/Sr</p> <p>_____ Minor elective</p>

***Minors** must be in Math, Science, Engineering or a Composite of these fields.

Common minors: Geophysics, GIST, Composite, Math, Chemistry, Physics, Civil Engineering.

Major Elective (GEOS):

Fall

GEOL 3301 Geomorphology
 GEOL 3323 Environmental Geology
 GEOL 3450 Paleontology (even years)
 GEOL 4300 Intro to Petroleum Systems
 GEOL 4300 Petrophysics
 GCH 4405 Inorganic Geochemistry
 GPH 4321 Seismic Methods

Spring

GCH 4405 Inorganic Geochemistry
 GCH 4308 Techniques/Applications Mineral Sciences
 GPH 3310 Quantitative Methods
 GPH 4323 Potential Field Methods
 GEOL 3328 Energy Resources
 GEOL 4318 Geology of Texas
 GEOL 4331 Digital Imagery
 GEOL 4361 Advanced Structural Geology (odd years)
 GEOL 4362 Tectonics (even years)