

Bachelor of Science in GEOSCIENCES
ENVIRONMENTAL GEOLOGY Concentration
Composite minor
2019-2020

Students must maintain a 2.5 TTU GPA to remain in the BS in Geosciences.

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

<p>FIRST YEAR <i>Fall -15 hours</i></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)</p> <p>_____ CHEM 1107 Principles of Chemistry Lab (CHEM placement Score of 60% or higher)</p> <p>_____ CHEM 1307 Principles of Chemistry I (CHEM Placement Exam score of 60% or higher)</p> <p>_____ ENG 1301 Essentials of Col Rhetoric</p>	<p><i>Spring-15 hours</i></p> <p>_____ GEOL 2401 Historical Geology + Lab (GEOL 1303 +1101, C or better)</p> <p>_____ CHEM 1308 Principles of Chemistry II (Minor) (CHEM 1307+1107; C or better)</p> <p>_____ CHEM 1108 Prin. of Chemistry II lab (Minor) (CHEM 1307+1107; C or better)</p> <p>_____ MATH 1452 Calculus II (MATH 1451)</p> <p>_____ ENG 1302 Advanced of Col. Rhetoric</p>
<p>SECOND YEAR <i>Fall-15 hours</i></p> <p>_____ GEOL 3401 Mineralogy (CL) (2.5 GPA)# (GEOL 1303 +1101, 2401, CHEM 1307 +1107, 1308 +1108)</p> <p>_____ GPH 3300 Geophysics (2.5 GPA)# (GEOL 1303 +1101, MATH 1451 C or better)</p> <p>_____ GEOL 2101 Seminar (CL) (GEOL 3401 co-req)</p> <p>_____ GEOL 3323 Environmental Geology (GEOL 1303 +1101)</p> <p>_____ MATH 2450 Calculus III # cumulative GPA all credits all colleges</p>	<p><i>Spring- 16 hours</i></p> <p>_____ GEOL 3321 Igneous + Metamorphic Petrology (GEOL 3401 C- or better)</p> <p>_____ GCH 3303 Introduction Geochemistry (Math 1452, CHEM 1308 +1108, GEOL 3401 C- or better)</p> <p>_____ CHEM 3305 Organic Chemistry (Minor) (CHEM 1308+1108; C or better)</p> <p>_____ PHYS 1408 Principles of Physics I (Minor) (MATH 1451)</p> <p>_____ Foreign Language _____ 2301</p>
<p>THIRD YEAR <i>Fall-14 hours</i></p> <p>_____ GEOL 3325 Sedimentary Petrology (GEOL 3321 C- or better)</p> <p>_____ GEOL 3402 Structural Geology (CL) (GEOL 3401 PHYS 1403 or 1408 c- or better)</p> <p>_____ GEOL 3301 Geomorphology (GEOL 3401 C or better starting in Fall 2019)</p> <p>_____ POLS 1301 American Government</p> <p>_____ PFW 11xx</p>	<p><i>Spring- 14 hours</i></p> <p>_____ GEOL 4327 Depo Systems & Stratigraphy (GEOL 3325 C- or better)</p> <p>_____ GEOL 4370 Hydrogeology (GEOL 3323, 3325 with a C – or better)</p> <p>_____ GEOL 4201 Sedimentary Field Methods (CL) (GEOL 3325, 3402 with a C – or better, GEOL 4327 concurrent)</p> <p>_____ Creative Arts Elective</p> <p>_____ GIST 3300 Geographic Info Sci (Minor)</p>
<p>FOURTH YEAR <i>Fall- 16 hours</i></p> <p>_____ GEOSCIENCES elective</p> <p>_____ PSS 2432 Structure and Function of Soil (Minor)</p> <p>_____ HIST 2300 US History Pre 1877</p> <p>_____ POLS 2306 Texas Politics and Topics</p> <p>_____ Social and Behavioral Sciences Elective*MULTI</p>	<p><i>Spring- 15 hours</i></p> <p>_____ GEOSCIENCES elective</p> <p>_____ HIST 2301 US History Post 1877</p> <p>_____ ENG LIT 2000-level (not ENG 2311, 2371)</p> <p>_____ Oral Communication Elective</p> <p>_____ MATH 3342</p>

***Minors** must be in Math, Science, Engineering or a Composite of these fields. Minors outside A&S need not exceed 30 hr outside A&S including core classes.

Suggested Composite MINOR: PHYS 1408, CHEM 1308 +1108, 3305, PSS 2432, GIST 3300

Major Electives:

Fall

GEOL 3450 Paleontology (even years)
GEOL 4306 Intro to Petroleum Systems
GEOL 4300 Petrophysics
GEOL 4312 Undergraduate Research
GEOL 4351 Image Spectroscopy
GEOL 4340 Advanced Historical Geology
GCH 4405 Inorganic Geochemistry
GPH 4321 Seismic Methods

+ PFW only required for students under 25 year of age

GPA is cumulative with includes all college credits at all institutions.

Starting with the 2017-2018 catalog GPA 2.50 for internal transfers.

Spring

GCH 4308 Techniques/Applications Mineral Sciences
GEOL 3322 Oceanography
GEOL 3328 Energy Resources
GEOL 4310 Planetary Geology
GEOL 4312 Undergraduate Research
GEOL 4318 Geology of Texas
GEOL 4331 Digital Imagery
GEOL 4361 Advanced Structural Geology (odd years)
GEOL 4370 Hydrogeology
GPH 4323 Potential Field Methods

PROPOSED 25 August 2017