Degree: Bachelor of Science  
Major: Geology  
Concentration: Geochemistry

### UNIVERSITY REQUIREMENTS
- Minimum Total Hours for Degree: 120  
- Minimum Upper Division Total Hours: 45  
- Minimum Upper Division in Residency Hours: 36  
- Foreign Language Requirement (see catalog)  
- Minimum Major Upper Division in Residency Hours: 12  
- First Year Seminar Requirement (UCCP 1101 & 1102)  
- College Minimum Major GPA: 2.25  
- Cumulative TAMUCC minimum GPA: 2.00

### SUPPORTING COURSES - 23 hours
- CHEM 1411: General Chemistry I  
- MATH 1314 placement or above  
- CHEM 1412: General Chemistry II  
- CHEM 1411  
- PHYS 1401 or 2425: General Physics I or Univ. Physics I  
- PHYS 1401; PHYS 2425 + MATH 2414  
- MATH 2413: Calculus I  
- MATH 1316 or 2312 or placement above  
- MATH 3342: Applied Probability & Statistics  
- GEOL 1403: Physical Geology (FL, SP, SUM)  
- GEOL 1404: Historical Geology (SP)  
- GEOL 2102 or GEOL 2103: Undergrad Seminar in Geology: Career in Geosciences (SP) or Research in Geosciences (FL)  
- GEOL 3326: Intro to Geological Field Methods (SP)  
- GEOL 3411: Mineralogy (FL)  
- CHEM 1412, CHEM 1411, and GEOL 1403  
- GEOL 3414: Igneous & Metamorphic Petrology (SP)  
- GEOL 3411, CHEM 1411, CHEM 1412, and GEOL 3411  
- GEOL 4322: Geophysics  
- GEOL 4421, MATH 2413, and PHYS 1401 or PHYS 2425  
- GEOL 4421: Structural Geology (SP)  
- GEOL 4411: Sedimentation & Stratigraphy (SP)  
- GEOL 1403, GEOL 1404, GEOL 3411 and GEOL 3442  
- GEOL 4416: Geochemistry  
- GEOL 1403, CHEM 1411, CHEM 2413, and GEOL 1412  
- GEOL 4650: Field Geology (SUM)  
- CHEM 1412, GEOL 3441, GEOL 4411, and GEOL 4421; Junior/Senior

### GEOLOGY CORE - 41 hours
- GEOL 1403: Physical Geology (FL, SP, SUM)  
- GEOL 1404: Historical Geology (SP)  
- GEOL 2102 or GEOL 2103: Undergrad Seminar in Geology: Career in Geosciences (SP) or Research in Geosciences (FL)  
- GEOL 3326: Intro to Geological Field Methods (SP)  
- GEOL 3411: Mineralogy (FL)  
- CHEM 1412, CHEM 1411, and GEOL 1403  
- GEOL 3414: Igneous & Metamorphic Petrology (SP)  
- GEOL 3411, CHEM 1411, CHEM 1412, and GEOL 3411  
- GEOL 4322: Geophysics  
- GEOL 4421, MATH 2413, and PHYS 1401 or PHYS 2425  
- GEOL 4421: Structural Geology (SP)  
- GEOL 4411: Sedimentation & Stratigraphy (SP)  
- GEOL 1403, GEOL 1404, GEOL 3411 and GEOL 3442  
- GEOL 4416: Geochemistry  
- GEOL 1403, CHEM 1411, CHEM 2413, and GEOL 1412  
- GEOL 4650: Field Geology (SUM)  
- CHEM 1412, GEOL 3441, GEOL 4411, and GEOL 4421; Junior/Senior

### GEOLOGY TRACK - 29 hours
- Required:  
  - CHEM 3418: Instrumental Analysis  
  - CHEM 3411: Organic Chemistry I  
  - CHEM 3412: Organic Chemistry II  
  - CHEM 3417: Quantitative Analysis  
  - CHEM 4344: Chemical Oceanography  
  - CHEM 4401: Biochemistry I  
  - CHEM 4407: Advanced Inorganic Chemistry  
  - CHEM 4423: Physical Chemistry I  
  - CHEM 4443: Environmental Chemistry  
  - CHEM 4490: Special Topics  
  - ESCI 3202: Professional Skills  
  - ESCI 3351: Oceanography  
  - GEOL 4444: Hydrogeology  
  - GEOL 4430: Internship in Geology  
  - GEOL 4490: Selected Topics  
  - GEOL 4496: Directed Independent Study

- Additional hours not listed may be approved by Faculty Mentor.