## B.S. in Geosciences

### Degree-Specific Requirements**:
- Chemistry 1411: General Chemistry I
- Chemistry 1412: General Chemistry II
- **Choose 2 of the following (or more advanced):**
  - Math 1314: Pre Calculus Algebra
  - Math 1316: Plane Trigonometry
  - Math 1410: Elementary Functions
  - Math 1420: Calculus I
- Physics 1301: General Phy- Mechanics & Heat
- Physics 1101: General Physics Lab I
- Physics 1302: General Phy- Sound, Lght, Elec, & Mag
- Physics 1102: General Physics Lab II

### Major Core:
- **Choose 1 of the following:**
  - Geology 1403: Physical Geology
  - OR
  - Geology 1404: Historical Geology
- **Choose 1 of the following:**
  - Geology 3301: Field Methods
  - Geology 3301: Field Methods
- **Choose 1 of the following:**
  - Geology 4413: Methods in Applied Geophysics
  - OR
  - Geology 4320: Petroleum Geology
- Geology 4426: Hydrogeology

### Select 15 cr from the following advanced electives:
- Geology 3326: Environmental Geology
- Geology 3330: Oceanography
- Geology 3415: Paleontology of Invertebrates
- Geology 4312: Economic Geology
- Geology 4320: Petroleum Geology
- Geology 4331: Geology of North America
- Geology 4337: Plate Tectonics
- Geology 4426: Hydrogeology
- Geography 4330: Hydrology and Water Resources
- Geography 4432: Geomorphology

This track/concentration is designed for students that are not able to take or complete Field Camp (Geol 4360, 4361) and/or Calculus I, Calculus II, or Stat 3379 in the Geology major.

**Both the Geoscience and Geology B.S. degrees require an additional minor in order to complete state-mandated credit hour requirements; core curriculum not included in track requirements.**

## B.S. in Geology

### Degree-Specific Requirements**:
- Chemistry 1411: General Chemistry I
- Chemistry 1412: General Chemistry II
- Math 1420: Calculus I
- **Choose 1 of the following 2:**
  - Math 1340: Calculus II
  - OR
  - Statistics 3379: Statistical Methods in Practice
- Physics 1301: General Phy- Mechanics & Heat
- Physics 1101: General Physics Lab I
- Physics 1302: General Phy- Sound, Lght, Elec, & Mag
- Physics 1102: General Physics Lab II

### Major Core:
- **Choose 1 of the following:**
  - Geology 1403: Physical Geology
  - OR
  - Geology 1404: Historical Geology
- **Choose 1 of the following:**
  - Geology 3301: Field Methods
  - Geology 3404: Mineralogy
  - Geology 3405: Petrology
  - Geology 4304: Geochemistry
  - Geology 4400: Stratigraphy & Sedimentation
  - Geology 4402: Structural Geology
  - Geology 4426: Hydrogeology
  - Geology 4360: Field Geology
  - Geology 4361: Field Geology

### Select 9 cr from the following advanced electives:
- Geology 3326: Environmental Geology
- Geology 3330: Oceanography
- Geology 3415: Paleontology of Invertebrates
- Geology 4312: Economic Geology
- Geology 4320: Petroleum Geology
- Geology 4331: Geology of North America
- Geology 4337: Plate Tectonics
- Geology 4426: Hydrogeology
- Geology 4330: Hydrology and Water Resources
- Geography 4432: Geomorphology

### Geology Minor

#### Required:
- Geology 1404: Historical Geology

#### Select 1 of the following:
- Geology 1403: Physical Geology
- OR
- Geology 1405: Geologic Hazards & Resources

In addition, 12 advanced (3000 or 4000) Geology elective hours are required.