# Geology B.A.

## Degree Requirements: 124 Credit Hours

See Core Curriculum for required courses in Area A1 through Area E.

<table>
<thead>
<tr>
<th>General Requirements (Core A – E)</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area A2 -- Must take MATH 1112, MATH 1113 or MATH 1441</td>
<td>42</td>
</tr>
<tr>
<td>Area DII -- Must take MATH 1441 if not taken in Area A2 above</td>
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</tbody>
</table>

### Additional Requirements

| Area F - Courses Appropriate to Major | 4 |

- Students must complete CHEM 1211K, CHEM 1212K, GEOL 1121, and GEOL 1122 if not taken in Area D
- CHEM 1211K Principles of Chemistry I
- CHEM 1211 Principles of Chemistry I and Principles of Chemistry I Laboratory
- CHEM 1212K Principles of Chemistry II
- CHEM 1212 Principles of Chemistry II and Principles of Chemistry II Laboratory
- GEOL 1121 Introduction to the Earth (if not taken in Area D1)
- GEOL 1122 General Historical Geology (if not taken in Area D2)

### Electives

Select from the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>BIOL 1103 Concepts of Biology</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 1103L Concepts of Biology Laboratory (or BIOL 1110L)</td>
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<tr>
<td>MATH 1441 Calculus I</td>
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<tr>
<td>MATH 2242 Calculus II</td>
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<tr>
<td>PHYS 1111K Introductory Physics I</td>
<td></td>
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<tr>
<td>PHYS 1112K Introductory Physics II</td>
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<tr>
<td>STAT 2231 Introduction to Statistics I</td>
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</table>

### Major Requirements

- GEOL 3541 Mineralogy
- GEOL 3542 Petrology and Petrography
- GEOL 5142 Stratigraphy and Sedimentation
- GEOL 5440 Structural Geology
- Geology Electives (Must include 9 credit hours of GEOL 3000-level or above)

### Electives

- Must include at least 5 credit hours of upper-division (3000-level and above) coursework
- Foreign Language (2002 Level)
  - Completion through 2002-level Foreign Language
  - 0-9
- Minor: Must be approved by advisor
  - Select 15 credit hours of Minor coursework
  - 15

### Total Credit Hours

- 124

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1. May be satisfied by a secondary school background showing four (4) years or more of preparation in a single language

## Program Requirements

- Geology majors must maintain an overall 2.0 GPA across all Geology coursework (any course with GEOL prefix).

## Honors in Geology

Students majoring in Geology (BS or BA) may pursue an Honors in Geology program. Students are required to have a minimum GPA of 3.2 after 45 credit hours of coursework and approval of Geology and Geography faculty to commence the Honors program.

To graduate with Honors in Geology, a student must:

- Be admitted to the University Honors Program;
- Complete Senior Thesis Research II (GEOL 4831) with a grade of B or higher;
- Complete Introduction to Research (GEOL 4120) (with a grade of B or higher), Senior Thesis Research I (GEOL 4830), and Senior Thesis Research II (GEOL 4831) for a total of 8 credit hours;
- Successfully complete and present an Honors Thesis or Capstone Project;
- Be in good standing in the University Honors Program at the time of graduation.