Bachelor of Science in Geology

2019-2020

Year 1

Fall
- MA 1100/1161: Calculus w/ Tech (4 credits)
- PH 1100: Physics Lab I (1 credit)
- CH 1150: Chemistry Lab I (3 credits)
- GE 2000: Understanding the Earth (3 credits)

Spring
- MA 2160: Calculus w/ Tech II (4 credits)
- PH 2100: Univ. Physics I (3 credits)
- CH 1160: Chemistry Lab II (3 credits)
- GE 3040: Intro to Mineralogy (3 credits)

Year 2

Fall
- MA 2160: Calculus w/ Tech II (4 credits)
- PH 2200: Univ. Physics II - Elec/Mag (3 credits)
- CH 1161: Chemistry Lab II (3 credits)
- GE 3200: Geochemistry (3 credits)

Spring
- PH 2310: Intro to Petrology (3 credits)
- GE 3050: Structural Geology (4 credits)
- HASS Elective (3 credits)
- MA 1900

Summer
- GE 3910: Field Geology w/ Eng A/P (11 credits)
- GE 3940: Field Geology (5 credits)

Year 3

Fall
- MA 3160: Multivariable Calculus w/ Tech (4 credits)
- PH 3100: Depositional Systems (3 credits)
- GE 3100: Geophysics (3 credits)
- GE 3160: Advanced Geophysics Elective (3 credits)

Spring
- MA 1900

Year 4

Fall
- MA 3250: Comp. Geosciences (3 credits)
- GE 3250: Geology Elective (3 credits)
- GE 3260: Geology Elective (3 credits)

Spring
- GE 3320: Earth History (3 credits)
- EC 3400: Econ Decision Analysis (3 credits)
- GE 3910: Field Geology w/ Eng A/P (11 credits)

This is not an official list of degree requirements. Adjustments may be required due to curriculum changes.
BS in Geology 2019-2020
(Minimum of 130 Credits)

Geology Approved Electives (Minimum of 17 credits)
Geo Approved Electives can be from any GE course, but not more than 6 credits at the
2000 level. Courses outside of the department can be used with the permission of the
advisor.

Second Degree Policy: Candidates for a second degree must meet all the coursework
requirements for the major in the second degree with a minimum of 25% of the credit
hours required for the degree, beyond the primary degree.

### Advanced Geophysics Electives

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Offered</th>
<th>Prerequisite(s)</th>
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<tbody>
<tr>
<td>GE 4250 Fundamentals of Remote Sensing</td>
<td>Spring</td>
<td>PH 2200, MA 2160</td>
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<tr>
<td>GE 4500 Plate Tectonics and Global Geophysics</td>
<td>Fall</td>
<td>GE 2000, PH 2200, MA 3160</td>
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<tr>
<td>GE 4530 Planetary Geology and Geophysics</td>
<td>Fall</td>
<td>GE 2000, PH 2200, MA 2160</td>
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<tr>
<td>GE 4560 Earthquake Seismology</td>
<td>Fall</td>
<td>GE 3050, PH 2100, MA 3160</td>
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<tr>
<td>GE 4600 Reflection Seismology</td>
<td>Spring</td>
<td>GE 3040</td>
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<tr>
<td>GE 4610 Formation Eval. &amp; Petroleum Engineering</td>
<td>Fall</td>
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<tr>
<td>GE 4933 Special Topics in Geophysics*</td>
<td>On Demand</td>
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<tr>
<td>GE 4962 Ind. Geophysics Research Project**</td>
<td>On Demand</td>
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* GE 4610 Restrictions: Permission of instructor required

**GE 4962 Restrictions: Permission of instructor required; May not be enrolled in one of the following Classes: Freshman, Sophomore

### General Education Requirements

1. **Core Courses (6 Credits)**
   - UN 1015
   - UN 1025*
   * Or one semester of a 3000 level or higher modern language.

2. **Sophomore Core Courses (6 Credits)**
   - Creative and Critical Thinking (HU/FA)
   - Social Responsibility and Ethical Reasoning (SS)

3. **HASS Course Requirements (12 Credits)**
   - 6 credits 3000- or 4000- level
   - 3 credits required from each of these 3 lists:
     - Communication and Composition, Humanities and Fine Arts (HU/FA), and Social and Behavioral Sciences (EC/PSY/SS)
     - No more than 3 credits on the Restricted HASS List
   - A. 6 credits 3000- or 4000- level:
     1. __________________
     2. __________________
   - B. 6 credits at any level:
     1. __________________
     2. __________________

4. **Co-curricular activities (3 units)**
   - The co-curricular requirement consists of three semester units of physical
     education activities. These units are required for graduation, but are not included in
     the overall degree-credit requirement.
   - Note: Most physical education activities will last for 7 ½ weeks or
     ½ semester. A student would need six of these ½-semester units to fulfill the 3-
     semester unit co-curricular requirement.
   - PE ___________ PE ___________ PE ___________
   - PE ___________ PE ___________ PE ___________