Bachelor of Science in Geology
2021-2022

This is not an official list of degree requirements. Adjustments may be required due to curriculum changes.
BS in Geology 2021-2022
(Minimum of 127 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>
</tr>
</thead>
<tbody>
<tr>
<td>GE 4250 Fundamentals of Remote Sensing</td>
<td>Spring</td>
<td>PH 2200, MA 2160</td>
</tr>
<tr>
<td>GE 4500 Plate Tectonics and Global Geophysics</td>
<td>Fall</td>
<td>GE 2000, PH 2200, MA 3160</td>
</tr>
<tr>
<td>GE 4530 Planetary Geology and Geophysics</td>
<td>Fall</td>
<td>GE 2000, PH 2200, MA 2160</td>
</tr>
<tr>
<td>GE 4560 Earthquake Seismology</td>
<td>Fall</td>
<td>GE 3050, PH 2100, MA 3160</td>
</tr>
<tr>
<td>GE 4600 Reflection Seismology</td>
<td>Spring</td>
<td>GE 3040</td>
</tr>
<tr>
<td>GE 4610 Formation Eval. &amp; Petroleum Engineering</td>
<td>Fall/Spring</td>
<td></td>
</tr>
<tr>
<td>GE 4933 Special Topics in Geophysics*</td>
<td>On Demand</td>
<td></td>
</tr>
<tr>
<td>GE 4962 Ind. Geophysics Research Project**</td>
<td>On Demand</td>
<td></td>
</tr>
</tbody>
</table>

* 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

BS Geology Curriculum Overview (127 Total Credits)

- General Education & Free Electives
- Chemistry & Geochemistry
- Physics & Geophysics Fundamentals
- Calculus, Statistics, & Economic Analysis
- Physical Geology, Mineralogy, Petrology, Structure, Historical, & Depositional Systems
- Computational Geosciences, Geohydrology & Lower Division Geology Electives
- Field Geology & Geophysics
- Advanced Geology & Geophysics Electives

General Education Requirements

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

II. Sophomore Core Courses (6 Credits)
    Creative and Critical Thinking (HU/FA) ________________
    Social Responsibility and Ethical Reasoning (SS) ____________

III. 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. __________________

IV. 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 ____________

(https://www.mtu.edu/registrar/pdfs/core-and-hass-list-20-21.pdf)