Bachelor of Science in Geology
2019-2020

Year 1
Fall
- MA 1160/1161 Calculus W/ Tech I (4/4 Credits) F, S, Su
- CH 1150 UNIV Chemistry I (3 Credits) F, S, Su
- UN 1015 Composition (3 Credits) F, S, Su
- GE 2000 Understanding the Earth (3 Credits) F
- CH 1151 CHEMISTRY LAB I (1 Credit) F, S, Su

Spring
- MA 1162 Calculus W/ Tech II (4 Credits) F, S, Su
- CH 1160 UNIV Chemistry II (3 Credits) F, S, Su
- PH 1100 UNIV. PHYSICS I (2 Credits) F, S, Su
- CH 1161 CHEMISTRY LAB II (1 Credit) F, S, Su
- GE 2100 Intro to Compsci (3 Credits) F

Year 2
Fall
- MA 2160 Multivariable Calculus W/ Tech (4 Credits) F, S, Su
- MA 2720 Statistical Methods (4 Credits) F, S, Su
- GE 3050 Structural Geology (3 Credits) F
- CH 1150 INTRO TO COMPSCI (1 Credit) F, S, Su
- GE 2300 INTRO TO MINERALOGY (3 Credits) F

Spring
- CH 1160 UNIV. PHYSICS II - MECH (3 Credits) F, S, Su
- GE 2200 UNIV. PHYSICS II - ELECTR/MAG (3 Credits) F, S, Su
- GE 2310 INTRO TO PETROLOGY (3 Credits) S

Year 3
Fall
- MA 3160 DEPOSITIONAL SYSTEMS (3 Credits) S
- GE 3100 DEPOSITIONAL SYSTEMS (3 Credits) S
- MA 2160 INTRO TO MINERALOGY (3 Credits) F
- CH 1150 INTRO TO COMPSCI (1 Credit) F, S, Su

Spring
- GE 3200 COMP. GEOPHYSICS ELECTIVE (3 Credits) S
- GE 3320 HISTORY (3 Credits) F

Year 4
Fall
- GE 3850 GEODYNAMICS (3 Credits) S
- GE 3900 ADVANCED GEOPHYSICS ELECTIVE (3 Credits) S
- EC 3400 DECISION ANALYSIS (3 Credits) S

Spring
- GE 3910 FIELD GEOPHYSICS w/ ENG/AP (3 Credits) S
- GE 3915 FIELD GEOLOGY w/ ENG/AP (3 Credits) Su
- FREE ELECTIVE (3 Credits) F

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.

<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
(http://www.mtu.edu/registrar/pdfs/core-and-hass-list-17-18-v2.pdf)

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)
(http://www.mtu.edu/registrar/pdfs/core-and-hass-list-17-18-v2.pdf)
   - 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  __________