Bachelor of Science in Applied Geophysics
2016-2017

Year 1

Fall
- MA 1160/1161
  - CALCULUS I (4/5 CREDITS)
  - F, S, Su
- PH 1100
  - PHYSICS LAB I (1 CREDIT)
  - F, S, Su
- CH 1150
  - UNIV CHEMISTRY I (3 CREDITS)
  - F, S, Su
- GE 1100
  - ORIENTATION (1 CREDIT)
  - F
- MA 1160/1161
  - CALCULUS II (4/5 CREDITS)
  - F, S, Su
- PH 2100
  - CALCULUS II - MECH (3 CREDITS)
  - F, S, Su
- CH 1151
  - CHEMISTRY LAB I (1 CREDIT)
  - F, S, Su

Spring
- MA 2320/30
  - ELEM LINEAR ALGEBRA (2 CREDITS)
  - F, S, Su
- PH 2300
  - UNIV. PHYSICS II - FLUID/ THERM (2 CREDITS)
  - S
- GE 2000
  - UNIV. PHYSICS I - MECH (3 CREDITS)
  - S
- CH 1151
  - CHEMISTRY LAB I (1 CREDIT)
  - F, S, Su
- MA 2320/30
  - ELEM LINEAR ALGEBRA (2 CREDITS)
  - F, S, Su

Year 2

Fall
- MA 2320/30
  - ELEM LINEAR ALGEBRA (2 CREDITS)
  - F, S, Su
- PH 2300
  - UNIV. PHYSICS II - FLUID/ THERM (2 CREDITS)
  - S
- GE 2000
  - UNIV. PHYSICS I - MECH (3 CREDITS)
  - S
- CH 1151
  - CHEMISTRY LAB I (1 CREDIT)
  - F, S, Su
- MA 2320/30
  - ELEM LINEAR ALGEBRA (2 CREDITS)
  - F, S, Su

Spring
- PH 2300
  - UNIV. PHYSICS II - FLUID/ THERM (2 CREDITS)
  - S
- GE 2000
  - UNIV. PHYSICS I - MECH (3 CREDITS)
  - S
- CH 1151
  - CHEMISTRY LAB I (1 CREDIT)
  - F, S, Su
- MA 2320/30
  - ELEM LINEAR ALGEBRA (2 CREDITS)
  - F, S, Su

Summer
- MA 2320/30
  - ELEM LINEAR ALGEBRA (2 CREDITS)
  - F, S, Su
- PH 2300
  - UNIV. PHYSICS II - FLUID/ THERM (2 CREDITS)
  - S
- GE 2000
  - UNIV. PHYSICS I - MECH (3 CREDITS)
  - S
- CH 1151
  - CHEMISTRY LAB I (1 CREDIT)
  - F, S, Su
- MA 2320/30
  - ELEM LINEAR ALGEBRA (2 CREDITS)
  - F, S, Su

Year 3

Fall
- MA 3150
  - MULTIVARIABLE CALCULUS w/ TECH (4 CREDITS)
  - F, S, Su
- PH 2200
  - UNIV. PHYSICS III - FLUIDS/ THERMO (2 CREDITS)
  - S
- GE 3000
  - DEPOSITIONAL SYSTEMS (5 CREDITS)
  - Su
- MA 2320/30
  - ELEM LINEAR ALGEBRA (2 CREDITS)
  - F, S, Su
- PH 2100
  - PHYSICS LAB II (1 CREDIT)
  - F, S, Su

Spring
- MA 3250
  - ADVANCED GEOPHYSICS ELECTIVE (3 CREDITS)
  - S
- PH 2200
  - ELECTRONS FOR SCIENTISTS (3 CREDITS)
  - S
- GE 2310
  - INTRO TO MINERALOGY (3 CREDITS)
  - F
- MA 2320/30
  - ELEM LINEAR ALGEBRA (2 CREDITS)
  - F, S, Su
- PH 2100
  - PHYSICS LAB II (1 CREDIT)
  - F, S, Su

Year 4

Fall
- MA 3250
  - ADVANCED GEOPHYSICS ELECTIVE (3 CREDITS)
  - S
- PH 2200
  - ELECTRONS FOR SCIENTISTS (3 CREDITS)
  - S
- GE 3320
  - INTRO TO MINERALOGY (3 CREDITS)
  - F
- MA 2320/30
  - ELEM LINEAR ALGEBRA (2 CREDITS)
  - F, S, Su
- PH 2100
  - PHYSICS LAB II (1 CREDIT)
  - F, S, Su

Spring
- MA 3150
  - MULTIVARIABLE CALCULUS w/ TECH (4 CREDITS)
  - F, S, Su
- PH 2200
  - ELECTRONS FOR SCIENTISTS (3 CREDITS)
  - S
- GE 3000
  - DEPOSITIONAL SYSTEMS (5 CREDITS)
  - Su
- MA 2320/30
  - ELEM LINEAR ALGEBRA (2 CREDITS)
  - F, S, Su
- PH 2100
  - PHYSICS LAB II (1 CREDIT)
  - F, S, Su

This is not an official list of degree requirements. Adjustments may be required due to curriculum changes.
BS in Applied Geophysics 2016-2017
(Minimum of 128 Credits)

Geology Approved Electives (Minimum of 3 credits)
Geo Approved Electives can be any GE, PH, MA, or EE course 3000 level or above that is not already required or counted elsewhere.

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 4500 Plate Tectonics and Global Geophysics</td>
<td>Fall, Spring</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</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

Note: With approval of Advisor and Department Chair, exceptions may be granted for Advanced Geophysics Elective requirements.

General Education Sophomore Elective Lists

<table>
<thead>
<tr>
<th>HU/FA Elective List</th>
<th>SBS Elective List</th>
</tr>
</thead>
<tbody>
<tr>
<td>FA 2330 Art Appreciation</td>
<td>EC 2001 Principles of Economics</td>
</tr>
<tr>
<td>FA 2520 Music Appreciation</td>
<td>PSY 2000 Principles of Psychology</td>
</tr>
<tr>
<td>FA 2820 Theater Appreciation</td>
<td>SS 2100 World Peoples and Environments</td>
</tr>
<tr>
<td>HU 2130 Introduction to Rhetoric</td>
<td>SS 2200 Prehistory and Archaeology</td>
</tr>
<tr>
<td>HU 2501 American Experience in Literature</td>
<td>SS 2400 Intro to Human Geography</td>
</tr>
<tr>
<td>HU 2538 British Experience in Literature</td>
<td>SS 2500 Intro to History: US to 1877</td>
</tr>
<tr>
<td>HU 2700 Introduction to Philosophy</td>
<td>SS 2501 Intro to History: US since 1877</td>
</tr>
<tr>
<td>HU 2820 Communication and Culture</td>
<td>SS 2502 Intro to History: Europe to 1650</td>
</tr>
<tr>
<td>HU 2910 Language and Mind</td>
<td>SS 2503 Intro to History: Europe since 1650</td>
</tr>
</tbody>
</table>

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 Electives (6 Credits)
    ___HU/FA ______________    ___ SS/Behavioral ________________

III. Hass Course Requirements (12 Credits)
(http://www.mtu.edu/registrar/pdfs/HASS-Distribution-List.pdf)
- 6 credits 3000- or 4000- level
- No more than 3 credits on the Creative Endeavours List
- No more than 3 credits on the Supplemental 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____________