Visit the Department web page and click on “Undergraduate Programs” for complete advising information plus the latest version of the Geology Major requirements.

Core Courses (check each as completed) (30 credits)

Choose one of the following introductory geology classes:
   GEOL 0040 Physical Geology (3) OR GEOL 0800 Geology (3) OR GEOL 0860 Environmental Geology (3)

___ GEOL 0055 Geology Laboratory (2) [Fall, Spring, Jones] This is a prerequisite for all core courses!
___ GEOL 0060 History of the Earth (4) [Spring, Jones]
___ GEOL 1001 Mineralogy (4) [Fall, Stewart] This is a prerequisite for GEOL 1003 and co-req. for 1020!
___ GEOL 1003 Igneous and Metamorphic Petrology (4) [Spring, Skilling]
___ GEOL 1020 Sedimentology and Stratigraphy (4) [Fall, Abbott]
___ GEOL 1100 Structural Geology (4) [Fall, Anderson]
___ GEOL 1960 Field Camp (4-8) [Summer; Seek out programs run by other universities (see advising web page) and transfer in the credits. The Yellowstone Field Trip does not fulfill this requirement.]
___ GEOL 3900 Colloquium (weekly department lecture series) (1)

Note: Completion of both GEOL 0060 and GEOL 1020 fulfills one writing (W) requirement. You can take GEOL 1313 or a W class outside the Department to fulfill the second W.

Electives (At least 9 credits of upper level or graduate GEOL courses): (9 credits)

___ GEOL 1051 Groundwater Geology (4) [Spring, TBA]
___ GEOL 1052 Paleoclimates (3) [Spring, Abbott]
___ GEOL 1055 Environmental Science, Ethics, and Public Policy (3) [Spring, McCord/Rollins]
___ GEOL 1056 Environmental Science, Ethics, and Public Policy (3) [Spring, McCord/Rollins]
___ GEOL 1060 Geomorphology (4) [Alternate years, Spring, Abbott]
___ GEOL 1080 Geochronology (3) [TBA]
___ GEOL 1200 Paleontology (4) [Alternate years, Fall, Jones]
___ GEOL 1313 W – Communication for Environmental Professionals (3) [Fall, Spring, Collins]
___ GEOL 1410 Exploration Geophysics (3) [Alternate years, Fall, Harbert]
___ GEOL 1445 GIS, GPS Surveying, and Computer Methods for Earth Scientists (3) [Fall, Harbert]
___ GEOL 1460 Remote Sensing of the Earth (3) [Spring, Ramsey]
___ GEOL 1515 Environmental Geochemistry (3) [Fall, Capo]
___ GEOL 1640 Geologic and Environmental Hazards (3) [Alternate years, Fall, Ramsey]
___ GEOL 1701 Geology of the Planets (3) [TBA]
___ GEOL 1900 Internship (4-6) [staff]
___ GEOL 1901 Independent Study (1-12) [staff]
___ GEOL 1903 Undergraduate Research (1-12) [staff]
___ GEOL 1904 Directed Reading (1-12) [staff]
___ GEOL 1904 Research in Environmental Policy (3) [Spring, McElwaine]
___ GEOL 2447 Introduction to Arc/View and Advanced Arc/View Programming (3) [Spring, Harbert]
___ GEOL 3963 Topics in Environmental Geology (3) [Topics and times vary, Hopey]
___ GEOL ___.  Other upper level classes (GEOL 1000 or higher) may be approved by your advisor.

Co-requirements (take early; check each as completed) (28 credits)

___ MATH 0220 Analytical Geometry and Calculus 1 (4)
___ MATH 0230 Analytical Geometry and Calculus 2 (4)
___ MATH 0240 Analytical Geometry and Calculus 3 (4) OR MATH 0250 Matrix Theory and Differential Eqs (4)
___ CHEM 0110 General Chemistry 1 (4)
___ CHEM 0120 General Chemistry 2 (4)
___ PHYS 0174 Basic Physics for Science & Engineering 1 (4)
___ PHYS 0175 Basic Physics for Science & Engineering 2 (4)
Words of wisdom: If at all possible, do not take Mineralogy, Sedimentology/Stratigraphy, and Structural Geology all in one semester. These three lab classes taken at once are Lab Hell. Also, take your co-requisites as early as possible.

1. Luxury Schedule: You picked the geology major early.

<table>
<thead>
<tr>
<th>Fall, Sophomore Year</th>
<th>Spring, Sophomore Year</th>
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</thead>
<tbody>
<tr>
<td>Geol 0040, 0800 or 0860 (an introductory class)</td>
<td>Geol 0060: History of the Earth (w/ lab)</td>
</tr>
<tr>
<td>Geol 0055: Geology Laboratory</td>
<td>Geology elective or Geol 0055 if necessary</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Fall, Junior Year</th>
<th>Spring, Junior Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geol 1001: Mineralogy (w/ lab)</td>
<td>Geol 1003: Igneous and Metamorphic Petrology (w/ lab)</td>
</tr>
<tr>
<td>Geol 1020: Sedimentology and Stratigraphy (w/ lab)</td>
<td>Geology elective</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Fall, Senior Year</th>
<th>Spring, Senior Year</th>
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</thead>
<tbody>
<tr>
<td>Geol 1100: Structural Geology (w/ Big Lab)</td>
<td>Geology elective; Register for a summer field camp!</td>
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<tr>
<td>Geology elective</td>
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</tbody>
</table>

2. Desperate Schedule o’ Pain: You picked geology at the last minute and want to graduate pronto.

<table>
<thead>
<tr>
<th>Fall, Junior Year</th>
<th>Spring, Junior Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geol 0040, 0800 or 0860 (an introductory class)</td>
<td>Geol 0060: History of the Earth (w/ lab)</td>
</tr>
<tr>
<td>Geol 0055: Geology Laboratory</td>
<td>Geology elective or Geol 0055 if necessary</td>
</tr>
<tr>
<td>Geol 1001: Mineralogy (w/ lab) or Geology elective</td>
<td>Geology elective (check prerequisites carefully)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Fall, Senior Year</th>
<th>Spring, Senior Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geol 1020: Sedimentology and Stratigraphy (w/ lab)</td>
<td>Geol 1003: Igneous and Metamorphic Petrology (w/ lab)</td>
</tr>
<tr>
<td>Geol 1100: Structural Geology (w/ Big Lab)</td>
<td>Geology elective</td>
</tr>
<tr>
<td>Geology elective or Mineralogy (w/ lab)</td>
<td>Geology elective; Register for a summer field camp!</td>
</tr>
</tbody>
</table>

Departmental Honors Requirements: Complete the requirements for one of the following three options:

**Course Option:** Complete the minimum degree requirements, earn an overall QPA of 3.25 or more, and:

1. Satisfactorily complete a total of at least nine additional credits from other formal GEOL courses (excluding the 0800 series) or from any of the following: BIOSC 0370; CHEM 0250, 0260, 0310, 0320, 1410, 1540; MATH 0250; PHYS 0160, 0577, 1150;
2. Include within the requirements listed above a minimum of three credits in either geochmistry (GEOL 1051, 1515, 2500, or 2520) or geophysics (GEOL 1410 or 1460).

**Research Option:** Complete the minimum degree requirements, earn an overall QPA of 3.25 or more, and complete a minimum of three credits of Undergraduate Research (GEOL 1903) under the supervision of a faculty member from the Department of Geology and Planetary Science. This research must culminate in a written thesis that documents original research conducted by the student. Acceptance of the thesis will be contingent upon approval of the faculty supervisor and two additional faculty members. The results of the student's research are to be presented orally in a departmental seminar.

**Internship Option:** Complete the minimum degree requirements, earn an overall QPA of 3.25 or more, and work as an intern for a professional consulting geologist or firm in the field of geology while under the supervision of a faculty member from the Department of Geology and Planetary Science. A minimum of three credits of Internship (GEOL 1900) will culminate in written and oral reports documenting the project conducted by the student. Acceptance will be contingent upon approval of the faculty supervisor and two additional faculty members.

Suggested Elective Concentrations (grouped by interest):

**Computer Methods in Geosciences:**
- GEOL 1410 Exploration Geophysics
- GEOL 1445 GIS, GPS Surveying, and Computer Methods for Earth Scientists
- GEOL 1460 Remote Sensing of the Earth

**Economic Geology/Mineral Exploration:**
- GEOL 1050 Regional Geology of the U.S.
- GEOL 1410 Exploration Geophysics
- GEOL 1445 GIS, GPS Surveying, and Computer Methods for Earth Scientists
- GEOL 1460 Remote Sensing of the Earth

**Geochemistry:**
- GEOL 1051 Groundwater Geology
- GEOL 1501 Analytical Geochemistry
- GEOL 1515 Environmental Geochemistry

**Planetary Science:**
- GEOL 1060 Geomorphology
- GEOL 1460 Remote Sensing of the Earth
- GEOL 1515 Environmental Geochemistry
- GEOL 1701 Geology of the Planets