BS in GEOLOGY (694022) MAP Sheet
Department of Geological Sciences
For students entering the degree program during the 2016–2017 curricular year.

The basic degree in geology prepares graduates for professional employment in industry or government or for advanced studies in geology, business, or law.

<table>
<thead>
<tr>
<th>UNIVERSITY CORE AND GRADUATION REQUIREMENTS</th>
<th>PROGRAM REQUIREMENTS (74–75 total hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>UNIVERSITY CORE REQUIREMENTS</strong></td>
<td><strong>Complete one of the following options:</strong></td>
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<tr>
<td>Requirement</td>
<td>Classes</td>
</tr>
<tr>
<td>Religion Cornerstones</td>
<td></td>
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<tr>
<td>Teachings and Doctrine, Book of Mormon</td>
<td>1</td>
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<tr>
<td>Jesus Christ &amp; the Everlasting Gospel</td>
<td>1</td>
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<tr>
<td>Foundations of the Restoration</td>
<td>1</td>
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<tr>
<td>The Eternal Family</td>
<td>1</td>
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<tr>
<td>The Individual and Society</td>
<td></td>
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<tr>
<td>Citizenship</td>
<td></td>
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<tr>
<td>American Heritage</td>
<td>1–2</td>
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<tr>
<td>Global &amp; Cultural Awareness</td>
<td>1</td>
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<tr>
<td>Skills</td>
<td></td>
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<tr>
<td>Effective Communication</td>
<td></td>
</tr>
<tr>
<td>First-Year Writing</td>
<td>1</td>
</tr>
<tr>
<td>Adv Written &amp; Oral Communication</td>
<td>1</td>
</tr>
<tr>
<td>Quantitative Reasoning</td>
<td>0–1</td>
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<tr>
<td>Languages of Learning (Math or Language)</td>
<td>1</td>
</tr>
<tr>
<td>Arts, Letters, and Sciences</td>
<td></td>
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<tr>
<td>Civilization 1 and 2</td>
<td>2</td>
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<tr>
<td>Arts</td>
<td>1</td>
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<tr>
<td>Letters</td>
<td>1</td>
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<tr>
<td>Scientific Principles &amp; Reasoning</td>
<td></td>
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<tr>
<td>Biological Science</td>
<td>1–2</td>
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<tr>
<td>Physical Science</td>
<td>1</td>
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<tr>
<td>Social Science</td>
<td>1</td>
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<tr>
<td>Core Enrichment: Electives</td>
<td></td>
</tr>
<tr>
<td>Religion Electives</td>
<td>3–4</td>
</tr>
<tr>
<td>Open Electives</td>
<td>Variable</td>
</tr>
<tr>
<td><strong>GRADUATION REQUIREMENTS:</strong></td>
<td></td>
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<tr>
<td>Minimum residence hours required</td>
<td></td>
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<tr>
<td>Minimum hours needed to graduate</td>
<td></td>
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</tbody>
</table>

*THESE CLASSES CAN FILL BOTH UNIVERSITY CORE AND PROGRAM REQUIREMENTS (9–14 hours overlap)*

FOR UNIVERSITY CORE OR PROGRAM QUESTIONS CONTACT THE ADVISEMENT CENTER
Physical and Mathematical Sciences College Advisement Center
N-181 ESC
Brigham Young University, Provo, UT 84602
Telephone: (801) 422-2674

FACULTY ADVISOR:
Brooks Britt
S-387 ESC
Brigham Young University, Provo, UT 84602
Telephone: (801) 422-7316
### Suggested Sequence of Courses:

#### FRESHMAN YEAR**

**1st Semester**
- First-Year Writing or American Heritage: 3.0
- Geol 111 (FW): 4.0
- Chem 105 (FWSpSu): 4.0
  - Or Chem 111: (4.0)
- Religion Cornerstone course: 2.0
- Total Hours: 13.0

**2nd Semester**
- American Heritage or First-Year Writing: 3.0
- Chem 106, 107 (FWSpSu): 4.0
  - Or Chem 112: (3.0)
- Geol 112 (W): 4.0
- Religion Cornerstone course: 2.0
- General elective: 2.0
- Total Hours: 14-15.0

#### SOPHOMORE YEAR**

**3rd Semester**
- Geol 210 (F): 3.0
  - (Begins meeting before start of Fall semester)
- Geol 230 (F): 3.0
- Geol 351 (F): 4.0
- Math 112: 4.0
- Religion Cornerstone course: 2.0
- Total Hours: 16.0

**4th Semester**
- Biological Science: 3.0
- Geol 352 (W): 3.0
- Geol 370 (W): 3.0
- Math 113: 4.0
- Phscs 105: 3.0
- Total Hours: 16.0

**Spring Term**
- Geol 420: 2.0
- Geol 421: 2.0
- Geol 422: 2.0
- Total Hours: 6.0

#### JUNIOR YEAR**

**5th Semester**
- Engl 316 (FWSpSu): 3.0
- Geol 491R (FW): 3.0
- Global & Cultural Awareness: 3.0
- Letters: 3.0
- Religion Elective: 2.0
- General elective: 2.0
- Total Hours: 15.0

**6th Semester**
- Geol 400-level elective: 3.0
- Geol 491R (FW): 0.5
- Social Science: 3.0
- Arts: 3.0
- Religion Elective: 2.0
- General elective: 3.0
- Total Hours: 12.0

**7th Semester**
- Geol 400-level elective: 3.0
- Geol 400-level elective: 3.0
- Religion Cornerstone course: 2.0
- Global & Cultural Awareness: 3.0
- Letters: 3.0
- Religion Elective: 2.0
- General elective: 2.0
- Total Hours: 14.5

**8th Semester**
- Geol 400-level elective: 3.0
- Geol 491R (FW): 0.5
- Social Science: 3.0
- Arts: 3.0
- Religion Elective: 2.0
- General elective: 3.0
- Total Hours: 14.5

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**Note:** The sequence of courses suggested may not fit the circumstances of every student. Students should contact their college advisement center for help in outlining an efficient schedule.

**Note:** Students are encouraged to complete an average of 15 credit hours each semester or 30 credit hours each year, which could include spring and/summer terms. Taking fewer credits substantially increases the cost and the number of semesters to graduate.

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### THE DISCIPLINE:

Geological sciences consist of a number of disciplines aimed at understanding the Earth’s origin and development and the natural processes that have operated upon it and within it from the time of formation of the solar system. With the development of remote sensing technology and the exploration of the solar system by spacecraft, geological sciences have become increasingly important for understanding not only the Earth but also the Moon, other planets and their moons, and small bodies that orbit the sun.

Understanding the dynamic processes of Earth and other planets is relevant to many societal needs, such as assessment and forecasting of natural hazards, environmental change, and discovery of energy and mineral resources. Some of the diverse disciplines that can be studied in this department include general geology, plate tectonics, volcanology, geochemistry, geophysics, paleontology, environmental geology, petroleum geology, hydrogeology, paleoclimatology, and planetary geology.

### CAREER OPPORTUNITIES:

Graduates have the opportunity to work both outdoors and in the laboratory, pursuing careers in energy, mineral, and water resources or in environmental evaluation with industry, government, or consulting firms. The substantial preparation in basic sciences and mathematics also leads to a broad spectrum of teaching opportunities. Some scholarship money is available for those who pursue a geological sciences degree as a pre-law track. The most marketable terminal degree in geological sciences is the MS. Starting salaries for this degree are often very competitive with any other discipline.