## University Core and Graduation Requirements

### University Core Requirements:

<table>
<thead>
<tr>
<th>Requirements</th>
<th>#Classes</th>
<th>Hours</th>
<th>Classes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Religion Cornerstones</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Teachings and Doctrine of The Book of Mormon</td>
<td>1</td>
<td>2.0</td>
<td>REL A 275</td>
</tr>
<tr>
<td>Jesus Christ and the Everlasting Gospel</td>
<td>1</td>
<td>2.0</td>
<td>REL A 250</td>
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<tr>
<td>Foundations of the Restoration</td>
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<td>2.0</td>
<td>REL C 225</td>
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<tr>
<td>The Eternal Family</td>
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<td>2.0</td>
<td>REL C 200</td>
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<tr>
<td><strong>The Individual and Society</strong></td>
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<td></td>
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</tr>
<tr>
<td>American Heritage</td>
<td>1-2</td>
<td>3-6.0</td>
<td>from approved list</td>
</tr>
<tr>
<td>Global and Cultural Awareness</td>
<td>1</td>
<td>3.0</td>
<td>GEOG 120*, 130*, or 271*</td>
</tr>
<tr>
<td><strong>Skills</strong></td>
<td></td>
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<tr>
<td>First Year Writing</td>
<td>1</td>
<td>3.0</td>
<td>from approved list</td>
</tr>
<tr>
<td>Advanced Written and Oral Communications</td>
<td>1</td>
<td>3.0</td>
<td>ENGL 315 recommended</td>
</tr>
<tr>
<td>Quantitative Reasoning</td>
<td>1</td>
<td>3.0</td>
<td>STAT 121 recommended</td>
</tr>
<tr>
<td>Languages of Learning (Math or Language)</td>
<td>1</td>
<td>3.0</td>
<td>GEOG 222*</td>
</tr>
<tr>
<td><strong>Arts, Letters, and Sciences</strong></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Civilization 1</td>
<td>1</td>
<td>3.0</td>
<td>from approved list</td>
</tr>
<tr>
<td>Civilization 2</td>
<td>1</td>
<td>3.0</td>
<td>from approved list</td>
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<tr>
<td>Arts</td>
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<tr>
<td>Letters</td>
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<tr>
<td>Biological Science</td>
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<td>3-4.0</td>
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<tr>
<td>Physical Science</td>
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<td>3.0</td>
<td>from approved list</td>
</tr>
<tr>
<td>Social Science</td>
<td>1</td>
<td>3.0</td>
<td>GEOG 110*</td>
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<tr>
<td><strong>Core Enrichment: Electives</strong></td>
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<td></td>
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<tr>
<td>Religion Electives</td>
<td>3-4</td>
<td>6.0</td>
<td>from approved list</td>
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<tr>
<td>Open Electives</td>
<td>Variable</td>
<td>Variable</td>
<td>personal choice</td>
</tr>
</tbody>
</table>

FOR UNIVERSITY CORE AND PROGRAM QUESTIONS CONTACT THE ADVISEMENT CENTER

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

### Graduation Requirements:

- Minimum residence hours required: 30.0
- Minimum hours needed to graduate: 120.0

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### Suggested Sequence of Courses

#### FRESHMAN YEAR

**1st Semester**
- First-year Writing or American Heritage: 3.0
- GEOG 100: 1.0
- Religion Cornerstone course: 2.0
- General Education courses, university requirements, and/or general electives: 6.0
- Total Hours: 15.0

**2nd Semester**
- GEOG 120: 3.0
- GEOG 111: 4.0
- A HTG or First-Year Writing: 3.0
- Religion elective: 2.0
- General Education courses, university requirements, and/or general electives: 4.0
- Total Hours: 16.0

#### SOPHOMORE YEAR

**3rd Semester**
- GEOG 110: 3.0
- GEOG 212: 3.0
- GEOG 271: 3.0
- Religion Cornerstone course: 2.0
- General Education courses, university requirements, and/or general electives: 2.0
- Total Hours: 16.0

**4th Semester**
- GEOG 130: 3.0
- GEOG 213: 2.0
- GEOG 322: 3.0
- Religion elective: 2.0
- General Education courses, university requirements, and/or general electives: 2.0
- Total Hours: 14.0

#### JUNIOR YEAR

**5th Semester**
- GEOG 131: 3.0
- GEOG 441: 3.0
- Religion elective: 2.0
- General Education courses, university requirements, and/or general electives: 7.0
- Total Hours: 15.0

**6th Semester**
- GEOG 110: 3.0
- GEOG 442: 3.0
- Geography Intelligence electives: 6.0
- Exit Assessment: 0.0
- Total Hours: 15.0

**SENIOR YEAR**

**7th Semester**
- GEOG 311: 3.0
- GEOG 444: 3.0
- Geography Intelligence electives: 6.0
- General Education courses, university requirements, and/or general electives: 6.0
- Exit Assessment: 0.0
- Total Hours: 14.0

Your academic advisor can assist you in choosing electives to meet your total hour requirement.

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/or summer terms. Taking fewer credits substantially increases the cost and the number of semesters to graduate.
BS in Geography: Geospatial Intelligence (733732)
2018-2019 Program Requirements (59 - 60 Credit Hours)

**REQUIREMENT 1** Complete 15 courses

**CORE COURSES:**
- GEOG 100 - The Geographic Approach 1.0
- GEOG 101 - Global Environment: Understanding Physical Geography 3.0
- *GEOG 110 - Landscapes of Disaster: An Introduction to Natural Hazards 3.0
- *GEOG 120 - Geography and World Affairs 3.0
- GEOG 130 - Introduction to Human Geography 3.0
- GEOG 211 - Map Use and Interpretation 4.0
- GEOG 212 - Introduction to Geographic Information Systems 3.0
- GEOG 213 - Earth Observation and Image Interpretation 2.0
- *GEOG 222 - Statistics for Geographers 1 3.0
- GEOG 271 - Middle East 3.0
- GEOG 304 - Geography of Climates 3.0
- GEOG 313 - Remote Sensing 1 3.0
- GEOG 322 - Statistics for Geographers 2 3.0
- GEOG 331 - Economic Geography 3.0
- GEOG 341 - Political Geography 3.0

**REQUIREMENT 2** Complete 1 course

**GIS COURSES:**
- GEOG 217 - Programming for Geographers 3.0
- GEOG 311 - Intermediate Geographic Information Systems 3.0
- GEOG 312 - Cartographic Design 4.0
- GEOG 317 - Analytical Cartography 3.0
- GEOG 412 - Advanced Geographic Information Systems 3.0
- GEOG 413 - Remote Sensing 2 3.0

**REQUIREMENT 3** Complete 2 courses

**REGIONAL GEOGRAPHY COURSES:**
- GEOG 255 - Middle and South America 3.0
- GEOG 265 - Russia and the Former Soviet Union 3.0
- GEOG 272 - East Asia 3.0
- GEOG 273 - Southeast Asia 3.0
- GEOG 285 - Africa South of the Sahara 3.0

**REQUIREMENT 4** Complete 2 courses

- GEOG 441 - Seminar in Geography and Geospatial Intelligence 1 3.0
- GEOG 442 - Seminar in Geography and Geospatial Intelligence 2 3.0

**REQUIREMENT 5**
Complete the exit assessment during the final semester, no later than one month before graduation.

**THE DISCIPLINE:**

Geography offers a variety of programs centered around spatial analysis and tailored, so far as possible, to meet the future needs of individual students. Our modern computer laboratory allows students to gain practical experience with geographical information systems (GIS), remote sensing, cartography, and other programs in urban and regional planning, travel, and population studies.

**RESEARCH OPPORTUNITIES:**

Contact the Geography Department for this information.

**INTERNSHIPS, CO-OP ED, PRACTICAL EXPERIENCE:**

Contact the Geography Department for this information.

**FINANCING:**

Many students work up to 20 hours per week. Some find employment in campus offices and some junior and senior students obtain teaching or research assistantships. Most of our students obtain summer jobs that make use of their training and interests.

**CAREERS:**

Graduates would expect to be employed in a wide range of both governmental and private positions. Government Agencies hiring in this field would include the NGA (National Geospatial Agency), CIA, DIA (Defense Intelligence Agency), NSA (National Security Agency), the Air Force, Army, Marine Corps, and Navy. Jobs may also be found at more than 80 private firms that contract with those agencies to provide reconnaissance equipment, cameras, radars, radio and other receivers and platforms to convey them over areas of interest, as well as the software to operate, collect, exploit and disseminate the information. Job titles would include Image Analyst, Image Processor, Open Source Intelligence Analyst, Current Intelligence, Collection Analyst, Cartographers, GIS, Political Analyst, Economic Analyst, Population Analyst, Regional Analyst, and Physical Geographer. Additional jobs could be found in the development arena working with the contractors creating the hardware and software to make the systems and processes of intelligence function.

For more information on careers in your major, please contact the University Career Center or the Liberal Arts Academic Advisement Center.

**MAP DISCLAIMER**

While every reasonable effort is made to ensure accuracy, there are some student populations that could have exceptions to listed requirements. Please refer to the university catalog and your college advisement center/department for complete guidelines.

**DEPARTMENT INFORMATION**

Geography Department
Brigham Young University
690 Spencer W. Kimball Tower
Provo, UT 84602
Telephone: 801-422-3851

**ADVISEMENT CENTER INFORMATION**

Liberal Arts Advisement and Careers
Brigham Young University
1041 JFSB
Provo, UT 84602
Telephone: 801-422-3541