BS in Geography: Geospatial Science & Technology (733726) MAP Sheet
Family Home and Social Sciences, Geography
For students entering the degree program during the 2017-2018 curricular year.

<table>
<thead>
<tr>
<th>University Core and Graduation Requirements</th>
<th>Suggested Sequence of Courses</th>
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<tbody>
<tr>
<td><strong>University Core Requirements:</strong></td>
<td><strong>FRESHMAN YEAR</strong></td>
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<tr>
<td><strong>Requirements</strong></td>
<td><strong>1st Semester</strong></td>
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<tr>
<td><strong>#Classes</strong></td>
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<tr>
<td><strong>Religion Cornerstones</strong></td>
<td><strong>2nd Semester</strong></td>
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<tr>
<td>Teachings and Doctrine of The Book of Mormon</td>
<td><strong>Total Hours</strong></td>
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<tr>
<td>Jesus Christ and the Everlasting Gospel</td>
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<tr>
<td>Foundations of the Restoration</td>
<td>15.0</td>
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<td>The Eternal Family</td>
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<td>The Individual and Society</td>
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<tr>
<td>American Heritage</td>
<td><strong>SOPHOMORE YEAR</strong></td>
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<tr>
<td>Global and Cultural Awareness</td>
<td><strong>3rd Semester</strong></td>
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<td><strong>Skills</strong></td>
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<tr>
<td>First Year Writing</td>
<td><strong>Total Hours</strong></td>
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<tr>
<td>Advanced Written and Oral Communications</td>
<td>14.0</td>
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<td>Quantitative Reasoning</td>
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<tr>
<td>Languages of Learning (Math or Language)</td>
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<tr>
<td><strong>Arts, Letters, and Sciences</strong></td>
<td><strong>4th Semester</strong></td>
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<tr>
<td>Civilization 1</td>
<td></td>
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<td>Civilization 2</td>
<td><strong>Total Hours</strong></td>
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<tr>
<td>Arts</td>
<td>14.0</td>
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<tr>
<td>Letters</td>
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<tr>
<td>Biological Science</td>
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<tr>
<td>Physical Science</td>
<td><strong>SOPHOMORE YEAR</strong></td>
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<tr>
<td>Social Science</td>
<td><strong>5th Semester</strong></td>
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<td><strong>Core Enrichment: Electives</strong></td>
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<td>Religion Electives</td>
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<td>Open Electives</td>
<td><strong>5th Semester</strong></td>
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<td><strong>Graduation Requirements:</strong></td>
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<td>Minimum residence hours required</td>
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<td>Minimum hours needed to graduate</td>
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*FOR UNIVERSITY CORE AND PROGRAM QUESTIONS CONTACT THE ADVISEMENT CENTER
*THESE CLASSES FILL BOTH UNIVERSITY CORE AND PROGRAM REQUIREMENTS (9 hours overlap)

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 Science & Technology (733726)  
2017-2018 Program Requirements (56 Credit Hours)

**REQUIREMENT 1** Complete 9 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 222 - Statistics for Geographers 1 3.0
- GEOG 322 - Statistics for Geographers 2 3.0

**REQUIREMENT 2** Complete 2 courses

**PHYSICAL, REGIONAL, OR HUMAN GEOGRAPHY COURSES:**
- GEOG 305 - Geography of Landforms 3.0
- GEOG 306 - Global Conservation Designations 3.0
- GEOG 307 - Landscape Ecology 3.0
- GEOG 310 - Introduction to Urban and Regional Planning 3.0
- GEOG 331 - Economic Geography 3.0
- GEOG 336 - Urban Geography 3.0
- GEOG 346 - Population Geography 3.0
- GEOG 410 - Urban Planning Methods 3.0
- GEOG 421 - Urban Planning Law 3.0v
- GEOG 422 - Principles of Urban Design 2.0
- GEOG 423 - Planning for Unique and Sensitive Lands 2.0
- GEOG 424 - Urban Transportation Planning 3.0
- GEOG 510 - Professional Planning Studio 3.0

**REQUIREMENT 3** Complete 6 courses

**MAJOR COURSES:**
- GEOG 213 - Earth Observation and Image Interpretation 2.0
- GEOG 217 - Programming for Geographers 3.0
- GEOG 311 - Intermediate Geographic Information Systems 3.0
- GEOG 312 - Cartographic Design 4.0
- GEOG 313 - Remote Sensing 1 3.0
- GEOG 317 - Analytical Cartography 3.0

**REQUIREMENT 4** Complete 2 courses

**COMPLETE TWO COURSES (6 CREDIT HOURS) FROM THE FOLLOWING:**
- GEOG 399R - Academic Internship 6.0v
  You may take up to 3 credit hours.
- GEOG 411 - Issues in Computer Cartography 3.0
- GEOG 412 - Advanced Geographic Information Systems 3.0
- GEOG 413 - Remote Sensing 2 3.0
- GEOG 414 - Applied Urban Environmental Modeling 3.0
- GEOG 495R - Mentored Research 3.0v
  You may take up to 3 credit hours.
- GEOG 521R - Geographic Information Practicum 3.0
  You may take this course up to 1 time.

**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 are employed in a wide range of both private and governmental positions. Job titles include geographer, teacher of geography, city or regional planner, cartographer, photo interpreter, commodities and industrial location analysts, intelligence, travel industry, or environmental and GIS specialist, and many others. Skills in spatial analysis make geography a valuable minor or supporting field for many other disciplines.

For more information on careers in your major, please contact the University Career Center or the College of Family, Home, and Social Sciences 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**
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1041 JFSB  
Provo, UT 84602  
Telephone: (801) 422-3541