### 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>
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<tr>
<td>Teachings and Doctrine of The Book of</td>
<td>1</td>
<td>2.0</td>
<td>REL A 275</td>
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<tr>
<td>Mormon</td>
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<td>Jesus Christ and the Everlasting Gospel</td>
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<td>REL A 250</td>
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<td>Foundations of the Restoration</td>
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<td>REL C 225</td>
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<tr>
<td>The Eternal Family</td>
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<td>REL C 200</td>
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<tr>
<td><strong>The Individual and Society</strong></td>
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<tr>
<td>American Heritage</td>
<td>1-2</td>
<td>3.0-6.0</td>
<td>from approved list</td>
</tr>
<tr>
<td>Global and Cultural Awareness</td>
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<td>3.0</td>
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<tr>
<td><strong>Skills</strong></td>
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<td>First Year Writing</td>
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<td>Advanced Written and Oral Communications</td>
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<td>Quantitative Reasoning</td>
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<td>Languages of Learning (Math or Language)</td>
<td>Variable</td>
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<td>from approved list</td>
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<tr>
<td><strong>Arts, Letters, and Sciences</strong></td>
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<tr>
<td>Civilization 1</td>
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<tr>
<td>Civilization 2</td>
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<tr>
<td>Arts</td>
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<tr>
<td>Letters</td>
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<td>Biological Science</td>
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<td>Physical Science</td>
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<td>Social Science</td>
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<tr>
<td><strong>Core Enrichment: Electives</strong></td>
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<td>Religion Electives</td>
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<tr>
<td>Open Electives</td>
<td>Variable</td>
<td>Variable</td>
<td>personal choice</td>
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</tbody>
</table>

#### Graduation Requirements:

- Minimum residence hours required: 30.0
- Minimum hours needed to graduate: 120.0
### Minor in Environmental Science (285802)
#### 2020-2021 Program Requirements (17 Credit Hours)

**REQUIREMENT 1 Complete 2 courses**

### ENVIRONMENTAL SCIENCE CORE COURSES:
- GEOL 111 - Physical Geology 4.0
- GEOL 435 - Introduction to Groundwater 3.0
- MATH 112 - Calculus I 4.0
- MATH 119 - Introduction to Calculus 4.0
- MATH 302 - Mathematics for Engineering I 4.0
- MATH 303 - Mathematics for Engineering II 4.0
- MMBIO 221 - General Microbiology 3.0
- MMBIO 240 - Molecular Biology 3.0
- MMBIO 241 - Molecular and Cellular Biology Laboratory 1.0
- PWS 514 - Soil Microbiology 2.0
- STAT 121 - Principles of Statistics 3.0

**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**
Department of Plant and Wildlife Sciences
Brigham Young University
4105 Life Sciences Building
Provo, UT 84602
Telephone: (801) 422-3527

**ADVICEMENT CENTER INFORMATION**
Life Sciences Advisement
Brigham Young University
2060 Life Sciences Building
Provo, UT 84602
Telephone: (801) 422-3042
lifesciences@byu.edu

**REQUIREMENT 2 Complete 6.0 hours from the following course(s)**

### PWS SUPPORTING CORE COURSES:
- PWS 282 - Soil Science 3.0
- PWS 283 - Soil Science Laboratory 1.0
- PWS 305 - Watershed Ecology 3.0
- PWS 306 - Environmental Microbiology and Biogeochemistry 3.0
- PWS 307 - GIS Applications and Data Analysis 3.0
- PWS 308 - Remote Sensing 3.0
- PWS 309R - Mentored Learning Experience 6.0v
- PWS 511 - Environmental Biophysics: Soil and Plant Water Relations 4.0

**REQUIREMENT 3 Complete 5.0 hours from the following course(s)**

### OTHER AND PWS SUPPORTING CORE COURSES:
- BIO 220 - Biological Diversit; Animals 4.0
- BIO 370 - Bioethics 2.0
- BIO 441 - Entomology 3.0
- CHEM 101 - Introductory General Chemistry 3.0
- CHEM 105 - General College Chemistry 1 with Lab (Integrated) 4.0
- CHEM 106 - General College Chemistry 2 3.0
- CHEM 223 - Quantitative and Qualitative Analysis 4.0
- CHEM 227 - Principles of Chemical Analysis 4.0
- CHEM 285 - Introductory Bio-organic Chemistry 4.0
- CHEM 351H - Organic Chemistry 1 - Majors 3.0
- CHEM 352H - Organic Chemistry 2 - Majors 3.0
- CHEM 353 - Organic Chemistry Laboratory--Nonmajors 2.0v
- CHEM 483 HM - Biochemistry--Majors 3.0
- ECON 440 - Natural Resources and Environmental Economics 3.0
- GEOG 101 - Global Environment: Understanding Physical Geography 3.0
- GEOG 212 - Introduction to Geographic Information Systems 3.0
- GEOG 302 - Biogeography 3.0
- GEOG 305 - Geography of Landforms 3.0
- GEOG 306 - Global Conservation Designations 3.0
- GEOG 311 - Intermediate Geographic Information Systems 3.0
- GEOG 331 - Economic Geography 3.0
- GEOG 412 - Advanced Geographic Information Systems 3.0
- GEOG 101 - Introduction to Geology 3.0
- GEOG 111 - Physical Geology 4.0

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