# University Core and Graduation Requirements

## University Core Requirements:

### Requirements | #Classes | Hours | Classes
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### Religion Cornerstones
- Teachings and Doctrine of The Book of Mormon | 1 | 2.0 | REL A 275
- Jesus Christ and the Everlasting Gospel | 1 | 2.0 | REL A 250
- Foundations of the Restoration | 1 | 2.0 | REL C 225
- The Eternal Family | 1 | 2.0 | REL C 200

### The Individual and Society
- American Heritage | 1-2 | 3-6.0 | from approved list
- Global and Cultural Awareness | 1 | 3.0 | from approved list

### Skills
- First-Year Writing | 1 | 3.0 | from approved list
- Advanced Written and Oral Communications | 1 | 3.0 | ENGL 316 recommended
- Quantitative Reasoning | 0-1 | 0-3.0 | from approved list
- Languages of Learning (Math or Language) | 1 | 3.0 | STAT 121 recommended

### Arts, Letters, and Sciences
- Civilization 1 | 2 | 3.0 | from approved list
- Civilization 2 | 1 | 3.0 | from approved list
- Arts | 1 | 3.0 | from approved list
- Letters | 1 | 3.0 | from approved list
- Biological Science | 1 | 3.0 | PWS 100*
- Physical Science | 2 | 6.0 | CHEM 101, GEOL 101 recommended
- Social Science | 1 | 3.0 | ECON 110 recommended

### Core Enrichment: Electives
- Religion Electives | 3-4 | 6.0 | from approved list
- Open Electives | Variable | Variable | personal choice

## Graduation Requirements:
- Minimum residence hours required | 30.0
- Minimum hours needed to graduate | 120.0

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# Suggested Sequence of Courses

<table>
<thead>
<tr>
<th>Year</th>
<th>1st Semester</th>
<th>2nd Semester</th>
<th>3rd Semester</th>
<th>4th Semester</th>
<th>5th Semester</th>
<th>6th Semester</th>
<th>7th Semester</th>
<th>8th Semester</th>
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<tbody>
<tr>
<td>Freshman Year</td>
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<td>1st Semester</td>
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<tr>
<td>Arts or Letters</td>
<td>3.0</td>
<td>PWS 282</td>
<td>3.0</td>
<td>PWS 283</td>
<td>3.0</td>
<td>PWS 350</td>
<td>3.0</td>
<td>PWS 330</td>
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<tr>
<td>Physical Science</td>
<td>3.0</td>
<td>PWS 281</td>
<td>3.0</td>
<td>PWS 350</td>
<td>3.0</td>
<td>PWS 417</td>
<td>3.0</td>
<td>PWS 446</td>
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<td>First-Year Writing or A HTG 100</td>
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<td>Major elective</td>
<td>1.0</td>
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<td>Major elective</td>
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<td>Quantitative Reasoning (if needed)</td>
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<td>Religion Cornerstone course</td>
<td>2.0</td>
<td>General elective</td>
<td>3.0</td>
<td>Social Science</td>
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<td>Religion Cornerstone course</td>
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**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 Wildlife & Wildlands Conservation (282023)
2018-2019 Program Requirements (67 Credit Hours)

REQUIREMENT 1 Complete 20 courses
Bio 447 - Mammalogy 3.0
*Pws 100 - Plants in the Environment 3.0
Pws 115 - Safety Certifications for Field Biologists 1.0
Pws 215 - Principles of Range Management 1.0
Pws 225 - Principles of Wildlife and Fisheries Management 3.0
Pws 275 - Genetics and Reproduction 3.0
Pws 282 - Soil Science 3.0
Pws 283 - Soil Science Laboratory 1.0
Pws 330 - Rangeland Plant Identification and Ecology 3.0
Pws 335 - Comparative Animal Nutrition 3.0
Pws 344 - Natural History of Wildlife 3.0
Pws 350 - Rangeland Ecology 3.0
Pws 355 - Rangeland Vegetation Measurements and Analysis 3.0
Pws 357 - Techniques for Wildlife Investigations and Management 3.0
Pws 416 - Rangeland Improvement and Restoration 3.0
Pws 417 - Rangeland Planning and GIS 3.0
Pws 446 - Ornithology 3.0
Pws 492 - Wildlife and Wildlands Conservation Senior Seminar 3.0

REQUIREMENT 2 Complete 15.0 hours from the following course(s)
COMPLETE IS ELECTIVE CREDIT HOURS FROM THE FOLLOWING COURSE LIST. WITH THE HELP OF YOUR ADVISOR, SELECT COURSES TO QUALIFY FOR 2-3 FEDERAL JOB SERIES (WILDLIFE BIOLOGIST, ECOLGIST, RANGE CONSERVATIONIST, GIS SPECIALIST, SOIL CONSERVATIONIST, BOTANIST, FISHERIES BIOLOGIST):

Bio 220 - Biological Diversity: Animals 4.0
Bio 230 - Biological Diversity: Plants 4.0
Bio 235 - Field Botany 3.0
Bio 270 - Animal Restraint 1.0
Bio 380 - Comparative Animal Physiology and Anatomy 4.0
Bio 420 - Evolutionary Biology 4.0
Bio 430 - Plant Classification and Identification 4.0
Bio 441 - Entomology 3.0
Bio 443 - Ichthyology 3.0
Bio 445 - Herpetology 4.0
Bio 450 - Capstone in Biodiversity and Conservation 3.0
Bio 452 - Marine Biology 4.0
Bio 525 - Animal Disease, Biosecurity, and Zoonoses 3.0
Bio 541 - Aquatic Entomology 4.0
Bio 556 - Limnology 3.0
Bio 557 - Stream and Wetland Ecology 4.0
Geog 211 - Map Use and Interpretation 4.0
Geog 212 - Introduction to Geographic Information Systems 3.0
Geog 306 - Global Conservation Designations 3.0
Geog 412 - Advanced Geographic Information Systems 3.0
Pdbio 382 - Developmental Biology 3.0
Pws 270 - Animal Husbandry 3.0
Pws 301 - Plant Growth and Reproduction 3.0
Pws 303 - Soils Conservation and Resources 3.0
Pws 315 - Conflict Resolution Management 1.0
Pws 324 - Wildlife Law Enforcement 3.0
Pws 325 - Fisheries and Wetlands Management 3.0
Pws 411 - Watershed Management 3.0
Pws 419 - Forest Management and Ecology 3.0
Pws 440 - Plant Physiology 3.0
Pws 511 - Environmental Biophysics: Soil and Plant Water Relations 4.0
Pws 512 - Rangeland Landscape Ecology and Geographic Information 3.0
Pws 547 - Ungulate Conservation and Management 2.0
Pws 553 - Restoration Ecology 2.0
Pws 554 - Wildlife Behavioral Ecology 3.0
Recommended: Complete 10 courses

RECOMMENDED COURSES FOR PREPROFESSIONAL TRACK. THESE RECOMMENDED PREPROFESSIONAL COURSES CAN BE USED TO SATISFY THE ELECTIVE CREDITS ABOVE.

Chem 105 - General College Chemistry 1 with Lab (Integrated) 4.0
Chem 106 - General College Chemistry 2 3.0
Chem 107 - General College Chemistry Laboratory 1.0
Chem 351 - Organic Chemistry 1 3.0
Chem 352 - Organic Chemistry 2 3.0
Chem 353 - Organic Chemistry Laboratory - Nonmajors 2.0
Pdbio 120 - Science of Biology 3.0
Phscs 105 - General Physics 1 3.0
Phscs 106 - General Physics 2 3.0
Phscs 107 - General Physics Lab 1 1.0
Phscs 108 - General Physics Lab 2 1.0
Recommended: Complete 1 course

ONE OF THE FOLLOWING COURSES IS RECOMMENDED:
Bio 380 - Comparative Animal Physiology and Anatomy 4.0
Pdbio 305 - Human Physiology 4.0
Pdbio 362 - Advanced Physiology 3.0

Students interested in GIS applications should consider a minor in geographic information systems (20-23 hours). See the Geography Department for details.

RESEARCH OPPORTUNITIES:
Undergraduates can volunteer to participate in various field and laboratory research projects with faculty and graduate students. Students are often hired to help with research projects and may work part time while in school and full time in the summer months.

INTERNSHIPS, CO-OP ED, PRACTICAL EXPERIENCE:
Numerous opportunities exist for students to gain experience and establish working relationships with federal and state natural resource agencies as well as private organizations. Many agencies will hire students full time during the summer. Students often find permanent employment opportunities for graduate research by participating in these programs.

HONORARY SOCIETIES AND CLUBS:
Students are encouraged to become associated with the BYU Wildlife and Range Club, which represents the Wildlife Society and the Society for Range Management. The club assists students in attending state and national meetings of these professional societies.

CAREER SELECTIONS:
Recreation Officer – Supervisor of parks, public conferences, talks and tours.

**Wildlife Conservation Officer** – Collect biological data on wildlife. Monitor availability and condition of wildlife. Enforce game laws, investigate violations of game laws. Public relations include speaking to school and civic groups about game laws, availability of game, conservation, etc.


**Others** – Include Botanist, Zoologist.

See faculty advisor for additional career choices.

**FINANCING:**

Students in this major may apply for university, college, and departmental scholarships. A limited number of research or teaching assistant positions for undergraduate students also exist.

**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**

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