BS in Wildlife & Wildlands Conservation (282023) MAP Sheet  
Life Sciences, Plant and Wildlife Sciences  
For students entering the degree program during the 2022-2023 curricular year.

University Core and Graduation Requirements  

University Core Requirements:

### Requirements

<table>
<thead>
<tr>
<th>#Classes</th>
<th>Hours</th>
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<tr>
<td></td>
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<td><strong>Religion Cornerstones</strong></td>
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<td><strong>Teachings and Doctrine of The Book of Mormon</strong>12.0REL A 275</td>
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<td><strong>Jesus Christ and the Everlasting Gospel</strong>12.0REL A 250</td>
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<td><strong>Foundations of the Restoration</strong>12.0REL C 225</td>
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<td><strong>The Eternal Family</strong>12.0REL C 200</td>
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<td><strong>The Individual and Society</strong></td>
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<td><strong>American Heritage</strong>1-2-3-6.0from approved list</td>
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<td><strong>Global and Cultural Awareness</strong>13.0from approved list</td>
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<td><strong>Skills</strong></td>
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<td><strong>First Year Writing</strong>13.0from approved list</td>
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<td><strong>Advanced Written and Oral Communications</strong>13.0WRTG 316 recommended</td>
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<td><strong>Quantitative Reasoning</strong>0-10-3.0from approved list</td>
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<td>**Languages of Learning (Math or Language)**13.0STAT 121 recommended</td>
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<td><strong>Arts, Letters, and Sciences</strong></td>
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<td><strong>Civilization</strong>123.0from approved list</td>
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<td><strong>Civilization 21</strong>3.0from approved list</td>
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<td><strong>Arts</strong>13.0from approved list</td>
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<td><strong>Letters</strong>13.0from approved list</td>
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<td><strong>Biological Science</strong>13.0PWS 100*</td>
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<td><strong>Physical Science</strong>26.0CHEM 101, GEOL 101 recommended</td>
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<td><strong>Social Science</strong>13.0ECON 110 recommended</td>
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<td><strong>Core Enrichment: Electives</strong></td>
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<td><strong>Religion Electives</strong>3-46.0from approved list</td>
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<td><strong>Open Electives</strong>VariableVariablepersonal choice</td>
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<td><strong>Graduation Requirements:</strong></td>
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<td><strong>Minimum residence hours required</strong>30.0</td>
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<td><strong>Minimum hours needed to graduate</strong>120.0</td>
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### Suggested Sequence of Courses  
**Freshman Year**  
**1st Semester**  
**Arts or Letters**3.0  
**Physical Science**3.0  
**First-Year Writing or A HTG 1003.0**  
**PWS 1151.0**  
**Quantitative Reasoning (if needed)**3.0  
**Religion Cornerstone course**2.0  
**Total Hours**15.0  
**2nd Semester**  
**First-Year Writing or A HTG 1003.0**  
**Major elective**3.0
Civilization 13.0  
PWS 1003.0  
PWS 1351.0  
Religion Cornerstone course2.0  
Total Hours15.0  

Sophomore Year  
3rd Semester  
PWS 282 3.0  
PWS 283 1.0  
PWS 3503.0  
Major elective3.0  
Lang. of Learning (recommend: STAT 121)3.0  
Religion Cornerstone course2.0  
Total Hours15.0  

4th Semester  
PWS 2153.0  
PWS 3303.0  
PWS 2253.0  
PWS 275 3.0  
Religion Cornerstone course2.0  
Total Hours14.0  

Junior Year  
5th Semester  
PWS 3443.0  
PWS 3553.0  
PWS 3573.0  
First-Year Writing or A HTG 1003.0  
Major elective3.0  
Religion elective2.0  
Total Hours17.0  

6th Semester  
PWS 3753.0  
Advanced Written & Oral Communication3.0  
Major elective3.0  
Civilization 23.0  
Religion elective2.0  
Total Hours14.0  

Senior Year  
7th Semester  
PWS 4163.0  
Arts or Letters3.0  
Global & Cultural Awareness3.0  
Major elective1.0  
General elective3.0  
BIO 4473.0  
Total Hours16.0  

8th Semester  
PWS 3353.0  
PWS 4173.0
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) 2022-2023 Program Requirements (67 Credit Hours)

requirement 1 Complete 20 courses
*PWS 100 - Plants in the Environment 3.0
PWS 113 - (Not currently offered)
PWS 115 - Introduction to Wildlife and Wildlands Conservation 1.0
PWS 135 - Safety Certifications for Field Biologists 1.0
PWS 215 - Principles of Range Management 3.0
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 447 - Mammals of North America 3.0
PWS 492 - Wildlife and Wildlands Conservation Senior Seminar 1.0

requirement 2 Complete 15.0 hours from the following course(s)

Complete 15 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, ecologist, 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 - (Not currently offered)
BIO 280 - 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 447 - Mammalogy 3.0
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
THE DISCIPLINE:
The wildlife and wildlands conservation major provides the widest range of employment opportunities in the applied ecological fields of wildlife and rangeland resources management. Prescribed courses meet foundation requirements for a wildlife biologist, range conservationist, botanist, and zoologist, as listed in the Federal Register. Graduating students qualify to work for federal and state wildlife and natural resource agencies.

Opportunities exist for those with advanced degrees to work as consultants or to be employed with private companies concerned with natural resource management. Additional opportunities are available for students to work in zoos with this degree.
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 and 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.

BS in Wildlife & Wildlands Conservation (282023)2022-2023

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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Brigham Young University
4105 Life Sciences Building
Provo, UT 84602
Telephone: (801) 422-2760

ADVISEMENT CENTER INFORMATION

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lifesciences@byu.edu