



**B.S. Zoology
2020-2021 Catalog**

| University of Wyoming | | | |
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| B.S. Zoology | cr | Min Grade | Notes |
| USP - University Studies Program Requirements | | | |
| USP: First Year Seminar | 3 | C | FYS |
| USP: Communications I | 3 | C | C1 |
| USP: Communications II | 3 | C | C2 |
| USP: Communications III (ZOO 4100 & 4101 built into major) | | | C3 |
| USP: US & Wyoming Constitutions | 3 | | V |
| USP: Human Culture | 3 | | H |
| USP: Quantitative (MATH 1400 built into the major) | | | Q |
| USP: Physical & Natural World (CHEM 1020 & 1030 built into major) | | | PN |
| Credit hours subtotal: | | | 18 |
| Foundation Courses | | | |
| Complete both: MATH 1400 College Algebra MATH 1405 Trigonometry | 3 3 | | Q MATH 1450 (5 credits) may be substituted for MATH 1400 & MATH 1405 |
| MATH 2200 Calculus I | 4 | | |
| LIFE 2100 Introduction to Research and Analysis | 4 | | |
| Complete both: CHEM 1020 General Chemistry I CHEM 1030 General Chemistry II | 4 4 | | PN PN |
| CHEM 2230 Quantitative Analysis | 3-4 | | |
| Complete both: PHYS 1110 General Physics I PHYS 1120 General Physics II | 4 4 | | |
| LIFE 1010 General Biology | 4 | | |
| LIFE 2022 Animal Biology | 4 | | |
| LIFE 3050 Genetics | 4 | | |
| LIFE 3400 General Ecology | 3 | | |
| LIFE 3500 Evolutionary Biology | 4 | | |
| ZOO 4101 Scientific Communication Lab | 1 | | C3 |
| Credit hours subtotal: | | | 55-56 |
| Advanced Zoology Elective Choose one. | | | |
| ZOO 4330 Ichthyology | 3 | | If more than one of the required courses is completed, additional courses can count towards the Zoology Approved Core |
| ZOO 4350 Ornithology | 3 | | |
| ZOO 4370 Mammalogy | 3 | | |

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|-------------------------------|---|--------------------|
| ZOO 4380 Herpetology | 3 | Electives (below). |
| ZOO 4540 Invertebrate Zoology | 4 | |

Credit hours subtotal: 3-4

Zoology Approved Core Electives

A minimum of 10 of 18 Zoology Approved Core Electives must be exclusive to the ZOOL major.

Choose a total of eighteen (18) credits from the following:

| | | |
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| ZOO 3115 Human Systems Physiology | 4 | |
| ZOO 3600 Principles of Animal Behavior | 3 | |
| ZOO 4190 Comparative Environmental Physiology | 4 | |
| ZOO/BOT 4235 Marine Biology | 3 | |
| ZOO 4300 Wildlife Ecology and Management | 5 | |
| ZOO 4310 Fisheries Management | 3 | |
| ZOO 4330 Ichthyology | 3 | |
| ZOO 4340 Developmental Biology and Embryology | 4 | |
| ZOO 4350 Ornithology | 3 | |
| ZOO 4370 Mammalogy | 3 | |
| ZOO 4380 Herpetology | 3 | |
| ZOO 4540 Invertebrate Zoology | 4 | |
| ZOO 4400 Population Ecology | 3 | |
| ZOO 4415 Behavioral Ecology | 3 | |
| ZOO 4420 Conservation Biology | 3 | |
| ZOO 4430 Limnology Laboratory | 2 | |
| ZOO 4440 Limnology | 3 | |
| ZOO 4735 Advanced Topics in Physiology | 1-4 | (Maximum 12 credits) |
| ANSC 3010 Comparative Anatomy and Physiology of Domestic Animals | 4 | |
| ANSC 3100 Principles of Animal Nutrition | 3 | |
| ANSC 3150 Equine Nutrition and Physiology | 3 | |
| MOLB 3000 Introduction to Molecular Biology | 3 | |
| BOT 4235 Marine Biology | | |
| BOT 4550 Computational Biology | 4 | |
| BOT 4664 Special Topics in Evolution | 1-4 | (Maximum 6 credits) |
| BOT 4790 Special Topics in Ecology | 1-3 | (Maximum 6 credits) |
| GEOG 3150 Survey of Remote Sensing Applications | 3 | |
| GEOG 3480 Environmental Change | 3 | |
| ENTO 4300 Insect Ecology | 3 | |
| ENTO 4678 Aquatic Entomology | 3 | |
| ENTO 4682 Insect Anatomy/Physiology | 5 | |
| ENTO 4684 Classification of Insects | 4 | |
| PATB 4170 Diseases of Wildlife | 3 | |
| PATB 4710 Medical Virology | 3 | |

Credit hours subtotal: 18

Elective Courses

| Elective | 18-20 | Electives should work to fulfill upper division requirement. |
|------------------------------|-------|--|
| A&S Core Diversity in the US | 3 | ASD |
| A&S Core Global Awareness | 3 | ASG |

Credit hours subtotal:

24-26

B.S. Zoology total credit total:

120

B.S. Zoology Program Notes:

- A minimum of 120 hours is required. A minimum of 42 hours must be upper division (3000 & 4000 level).
- Math, Science & CM Electives must be selected with advisor's approval from Department list. General Electives cannot meet any other requirement for the major. Electives should be selected to satisfy the 42 hour upper division requirement.
- Degree Candidates must meet the academic requirements of the university, and must have a minimum GPA of 2.0 in all courses required for the major. • Grades of C or better are required for all prerequisite courses.
- Students may not take a course for S/U credit to satisfy any requirement, unless the course is offered for S/U credit only.

University of Wyoming Requirements

- Students must have a minimum cumulative GPA of 2.0 to graduate.
- Students must complete 42 hours of upper division (3000-level or above) coursework, 30 of which must be from the University of Wyoming.
- Courses must be taken for a single letter grade unless offered only for S/U.
- University Studies Program (USP), Human Culture (H) and Physical & Natural World (PN) courses must be taken outside of the major subject, but can be cross-listed with the major.

College of Arts and Sciences Requirements

- Students must take two "core" courses in addition to UW's USP requirements: Diversity in the United States (ASD) and Global Awareness (ASG).
- No more than 60 hours in the major subject may be used toward the 120 credit hours required for graduation.
- At least 30 hours in the major subject must be completed with a grade of C or better (individual majors may require more).

The University of Wyoming Office of the Registrar provides final approval of degree completion requirements prior to the awarding of any degree.