**Weber State University – ZOOLOGY MAJOR – Wildlife & Conservation**

**Bachelor of Science Degree (BS) 2023-Current**

### Required Zoology Courses:
- ZOOL 1110 LS Principles of Zoology (4)
- ZOOL 2220 Diversity of Animals (4)
- ZOOL 3200 Cell Biology (4)
- ZOOL 3300 Genetics (4)
- ZOOL 3450 Ecology (4)
- ZOOL 3600 Comparative Physiology (4)
- ZOOL 3720 Evolution (3)
- ZOOL 4990 Seminar (1)

**Total Credit Hours:** 28

### Upper-division Zoology Electives (minimum 4 courses):
- ZOOL 3470 Zoogeography (3)
- ZOOL 3500 Conservation Biology (3)
- ZOOL 3730 Population Biology (3)
- ZOOL 3820 Biology of Cancer (3)
- ZOOL 4050 Comparative Vertebrate Anatomy (4)
- ZOOL 4100 Vertebrate Embryology (4)
- ZOOL 4120 Histology (4)
- ZOOL 4210 Advanced Human Physiology (4)
- ZOOL 4220 Endocrinology (4)
- ZOOL 4300 Research Applications in Genetics (4)
- ZOOL 4350 Animal Behavior (4)
- ZOOL 4470 Wildlife Ecology and Management§ (4)
- ZOOL 4480 Aquatic Ecology (4)
- ZOOL 4490 Marine Ecology (4)
- ZOOL 4500 Parasitology (4)
- ZOOL 4640 Entomology (4)
- ZOOL 4650 Ichthyology (4)
- ZOOL 4660 Herpetology (4)
- ZOOL 4670 Ornithology§ (4)
- ZOOL 4680 Mammalogy§ (4)
- ZOOL 4770 Topics in Zoology* (3-4)

**Total credit hours:** 12-16

### Experience in Zoology (minimum 2 credit hours – may be taken in the same or separate semesters - select a 5th course from upper-division electives above):
- ZOOL 3099 Teaching the Human Anat. Lab. (3)
- ZOOL 3100 Advanced Human Anatomy (3)
- ZOOL 4800 Problems in Zoology (1-4)
- ZOOL 4840 Human Physiol. Lab. Teach. Assist. (1-2)
- ZOOL 4830 Readings in Zoology (1-4)
- ZOOL 4890 Cooperative Work Experience (1-4)
- ZOOL 4920 Short Courses (1-4)
- ZOOL 4950 Field Zoology (1-3)
- ZOOL 4970 Thesis (2)
- ZOOL 4980 Research Design (2)

**Total credit hours:** 2

### Required Chemistry Courses:
- CHEM 1210 PS Principles of Chemistry I (4)
- CHEM 1215 Principles of Chemistry I Lab (1)
- CHEM 2220 Principles of Chemistry II (4)
- CHEM 2225 Principles of Chemistry II Lab (1)

**Total credit hours:** 10

### Required Math Courses (minimum 1 course):
- MATH 1050 QL College Algebra (4)
- MATH 1060 Trigonometry (3)
- MATH 1080 QL Pre-calculus (4)
- MATH 1210 Calculus I (4)

**Total credit hours:** 3-5

### Required Statistics Courses (minimum 1 course):
- MATH 1160 (1040) QL Introduction to Statistics (3)
- MATH 3410 Probability and Statistics I (3)
- SOC 3600 Social Statistics (3)
- PSY 3600 Statistics in Psychology (3)

**Total Credit Hours:** 3

### Required Physics Courses (minimum 1 course):
- PHYS 1010 PS Elementary Physics (3)
- PHYS 2010 PS College Physics I w/lab (5)
- PHYS 2210 PS Physics for Sci. and Eng. I w/lab (5)

**Total Credit Hours:** 3-5

### Elective Support Courses (minimum 4 courses, must include at least 1 BTNY or MICR; Courses taken with separate labs counts as 1 course):
- Botany
  - BTNY 2103 LS Plant Biology (3)
  - BTNY 2104 Plant Form and Function* (4)
  - BTNY 2114 Evolutionary Survey of Plants* (4)
  - BTNY 2303 Ethnobotany (3)
  - BTNY 3105 Anatomy of Vascular Plants (4)
  - BTNY 3204 Plant Physiology (4)
  - BTNY 3214 Soils (4)
  - BTNY 3454 Plant Ecology (4)
  - BTNY 3504 Mycology (4)
  - BTNY 3624 Taxonomy of Vascular Plants (4)

- Chemistry
  - CHEM 2310 Organic Chemistry I (4)
  - CHEM 2315 Organic Chemistry I Lab (1)
  - CHEM 2320 Organic Chemistry II (4)
  - CHEM 2325 Organic Chemistry II Lab (1)
  - CHEM 3070 Biochemistry I (3)

- Earth and Environmental Sciences
  - GEO 3710 Intro to Geographic Information Systems* (4)

### Earth Sciences
- GEO 3840 Remote Sensing: Principles and Methods* (4)

### Math
- MATH 3450 Advanced Statistical Methods* (4)

### Microbiology
- MICR 2054 LS Principles of Microbiology (4)
- MICR 3053 Microbiological Procedures (3)
- MICR 3203 Immune System in Health & Disease (3)
- MICR 3254 Immunology (4)
- MICR 3305 Medical Microbiology (5)
- MICR 3484 Environmental Microbiology (4)
- MICR 3583 Food Microbiology (3)
- MICR 4054 Microbial Physiology (4)
- MICR 4554 Virology (4)

### Neurosciences
- NEUR 2050 Introduction to Neuroscience* (3)
- NEUR 3100 Human Anatomy (4)
- ZOOL 2200 LS Human Physiology (4)

**Total credit hours:** 12-20

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**Courses with a § are strongly recommended**

Please check the Catalog and CatTracks for Pre-Requisites & Co-Requisites.

Please meet with a Zoology advisor (Drs. Cavit, Brasso, Skopez, or Mull) for course planning.

Worksheet is for Zoology major coursework and does not include minor or university coursework.

40 credit hours must be 3000 level or higher (upper division) for the Bachelor of Science degree.

*Pre-Requisites for most upper-division Botany courses
*Class may not show in CatTracks; please see Department Chair.