

Animal & Veterinary Science, BS

Animal Biology Option



University of Wyoming, 2017-18

| Freshman Fall Semester | | | | Hrs | Min Grade | Notes |
|------------------------|------|--------------------------------|--|-----------|-----------|-------|
| USP First-Year Seminar | | | | 3 | C | FY |
| ANSC | 1010 | Introduction to Animal Science | | 4 | C | |
| CHEM | 1020 | General Chemistry I * | | 4 | C | PN |
| LIFE | 1010 | General Biology ** | | 4 | C | PN |
| Credit hours subtotal: | | | | 15 | | |

| Freshman Spring Semester | | | | Hrs | Min Grade | Notes |
|--------------------------------|------|----------------------------------|--|-----------|-----------|-------|
| USP US & Wyoming Constitutions | | | | 3 | | V |
| CHEM | 1030 | General Chemistry II | | 4 | | |
| ENGL | 1010 | College Composition and Rhetoric | | 3 | C | C1 |
| LIFE | 2022 | Animal Biology | | 4 | C | |
| MATH | 1400 | College Algebra | | 3 | C | Q |
| Credit hours subtotal: | | | | 17 | | |

| Sophomore Fall Semester | | | | Hrs | Min Grade | Notes |
|-------------------------|------|---------------------|--|-----------|-----------|-------|
| USP Human Culture | | | | 3 | | H |
| CHEM | 2420 | Organic Chemistry I | | 4 | | |
| MATH | 1405 | Trigonometry | | 3 | | |
| PHYS | 1110 | General Physics I | | 4 | | |
| Elective | | | | 3 | | |
| Credit hours subtotal: | | | | 17 | | |

| Sophomore Spring Semester | | | | Hrs | Min Grade | Notes |
|---------------------------|------|----------------------------|--|-----------|-----------|--|
| USP Communication 2 | | | | 3 | | C2 |
| CHEM | 2440 | Organic Chemistry II | | 4 | | |
| PHYS | 1120 | General Physics II | | 4 | | |
| STAT | 2050 | Fundamentals of Statistics | | 4 | | Can substitute STAT 2070 (Intro Statistics for the Social Sciences). |
| Credit hours subtotal: | | | | 15 | | |

This is a guide for course work in the major; actual course sequence may vary by student. Please refer to the online student degree evaluation, and consult with an academic advisor. • Not all courses are offered every semester and some electives may have prerequisites. Students should review the course descriptions in the *University Catalog* and consult with their academic advisor to plan accordingly.

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 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.

Animal & Veterinary Sciences - Animal Biology Option Program Notes:

* Requires MATH ACT \geq 23, MATH SAT \geq 600, Math Placement Exam \geq 3, or concurrent enrollment in MATH 1400 or 1405 or 1450. (University Standard)

** Requires MATH ACT \geq 21, MATH SAT \geq 600, Math Placement Exam \geq 2, or \geq C in MATH 0921. (University Standard)

Animal & Veterinary Science, BS



Animal Biology Option

University of Wyoming, 2017-18

| Junior Fall Semester | | | | Hrs | Min Grade | Notes |
|------------------------|------|-----------------------------|--|-----------|-----------|--|
| | | USP Human Culture | | 3 | | H |
| MICR | 2021 | General Microbiology | | 4 | | Cross listed with MOLB 2021; can substitute MICR/MOLB 2240 (Medical Microbiology). |
| MOLB | 3610 | Principles of Biochemistry | | 4 | | Can take both MOLB 3610 & MOLB 4100 or can substitute MOLB 4600 (Biochemistry 1: Biomolecules) & MOLB 4610 (Biochemistry 2: Bioenergetics & Metabolism). |
| | | Upper Division Elective *** | | 3 | | |
| | | Elective *** | | 3 | | |
| Credit hours subtotal: | | | | 17 | | |

| Junior Spring Semester | | | | Hrs | Min Grade | Notes |
|------------------------|------|--|--|-----------|-----------|--|
| ANSC | 3010 | Comp Anat and Phys of Domestic Animals | | 4 | | C |
| ANSC | 3100 | Principles of Animal Nutrition | | 3 | | C |
| MOLB | 4100 | Clinical Biochemistry | | 3 | | Can take both MOLB 3610 & MOLB 4100 or can substitute MOLB 4600 (Biochemistry 1: Biomolecules) & MOLB 4610 (Biochemistry 2: Bioenergetics & Metabolism). |
| | | Electives *** | | 6 | | |
| Credit hours subtotal: | | | | 16 | | |

| Senior Fall Semester | | | | Hrs | Min Grade | Notes |
|------------------------|------|---|--|-----------|-----------|-------|
| ANSC | 4120 | Principles of Mammalian Reproduction | | 3 | | C |
| FDSC | 3060 | Principles of Meat Science & Muscle Biology | | 3 | | C |
| LIFE | 3050 | Genetics | | 4 | | |
| PATB | 4400 | Immunology | | 4 | | |
| | | Elective | | 3 | | |
| Credit hours subtotal: | | | | 17 | | |

| Senior Spring Semester | | | | Hrs | Min Grade | Notes |
|------------------------|------|-------------------------------------|--|-----------|-----------|-------|
| ANSC | 4630 | Topics and Issues in Animal Science | | 3 | | C C3 |
| ZOO | 3600 | Principles of Animal Behavior | | 3 | | |
| | | Upper Division Electives *** | | 5 | | |
| | | Elective | | 3 | | |
| Credit hours subtotal: | | | | 14 | | |

TOTAL CREDIT HOURS: 128

Animal & Veterinary Sciences - Animal Biology Program Notes con't:

*** Recommended Electives:

- ANSC 4050 Animal Growth & Development (3 hrs)
- ANSC 4111 Equine Health and Disease (3 hrs) (Cross listed with PATB 4111)
- ANSC 4132 Equine Reproduction (2 hrs)
- ANSC 4150 Physiology of Ruminant Digestion (3 hrs)
- ANSC 4260 Mammalian Endocrinology (3 hrs)
- FDSC 3060 Principles of Meat Science & Muscle Biology (3 hrs)
- PATB 4001 Epidemiology (Diseases in Population) (3 hrs)
- PATB 4130 Mammalian Pathobiology (3 hrs)
- PATB 4170 Diseases of Wildlife (3 hrs)
- PATB 4360 Medical Entomology & Parasitology (4 hrs)