## Required Courses

- **AN S 214 or BMS 329** 3cr  Domestic Animal Physiology

## Animal Behavior (choose 3 credits)

- **A ECL 551** 3cr  Behavioral Ecology
- **AN S 336** 3cr  Domestic Animal Behavior & Well Being
- **ANTHR 317** 3cr  Primate Behavior, Ecology and Evolution
- **BIOL 354** 3cr  Animal Behavior

## Natural History (choose 3 credits)

- **A ECL 321** 3cr  Fish Biology
- **A ECL 366** 3cr  Natural History of Iowa Vertebrates
- **A ECL 457 +Lab** 3cr  Herpetology
- **A ECL 458 +Lab** 3cr  Ornithology
- **A ECL 459 +Lab** 3cr  Mammalogy

## Vertebrate Anatomy (choose 3 credits)

- **AN S 214 or BMS 329** 3cr  Domestic Animal Physiology
- **BIOL 335** 3cr  Prin. of Human & Other Animal Physiology
- **BIOL 351** 5cr  Comparative Chordate Anatomy
- **BIOL 352** 4cr  Vertebrate Histology
- **BIOL 434** 3cr  Endocrinology

### Genetics & Development (choose 3 credits)

- **AN S 331** 3cr  Domestic Animal Reproduction
- **BIOL 313** 3cr  Principles of Genetics
- **BIOL 423** 3cr  Developmental Biology
- **GEN 320** 3cr  Genetics, Agriculture & Biotechnology
- **NREM 315** 3cr  Genetics for Nat. Res. Managers

*One of these Genetics is needed to meet the ISU Vet Med admission requirements*

### Health & Production (choose 3 credits)

- **A ECL 401** 1cr  Intro. Aquatic Animal Health & Medicine
- **A ECL 442** 3cr  Aquaculture
- **A ECL 454** 3cr  Principles of Wildlife Diseases
- **AN S 319** 3cr  Animal Nutrition
- **AN S 493** 1-3cr  Workshop in Animal Science
- **BIOL 353** 4cr  Introductory Parasitology
- **MICRO 201 (+Lab)* 2-3cr  Introduction to Microbiology

*Some vet schools require Microbiology for admissions, in which case you may want to take MICRO 302+Lab.*

### Additional A ECL / NREM Electives

Select additional credits from above or 300+ level A ECL or NREM courses from the [ISU course catalog](#) until 33 total credits are reached for the option.

**Biochemistry (BBMB 301 or 316) is required for ISU Vet School Admissions. While not a requirement of Animal Ecology or the Pre-Vet & Wildlife Care option, it can be used towards this Advanced A ECL / NREM Electives requirement.**