

# IOWA STATE UNIVERSITY COLLEGE OF VETERINARY MEDICINE

## Upper-Level Biomedical Course Requirement

### Iowa State Undergraduate Animal Science Courses

ANS 3130: Exercise Physiology of Animals

ANS 3190: Animal Nutrition

ANS 3310: Domestic Animal Reproduction

ANS 3370: Lactation

ANS 3450: Growth and Development of Domestic Animals

ANS 3510: Principles of Domestic Animal Genetics

*(Because Iowa State considers ANS 3510, GEN 3200, and BIOL 3130 similar enough that only one can be used towards the degree we consider them the same. One of these courses can be used for either genetics or an upper-level biomedical science course)*

**PLEASE NOTE:** ANS 3520: Genetic Improvement of Domestic Animals can be used for genetics only)

ANS 3730B: Applied Avian Physiology

ANS 4190: Advanced Animal Nutrition

### Iowa State Biochemistry, Biophysics, and Molecular Biology Courses (BBMB)

BBMB 3160 – Principles of Biochemistry

BBMB 4040 – Biochemistry I

BBMB 4050 – Biochemistry II BBMB 4200 – Mammalian Biochemistry

### Iowa State Undergraduate Biology Courses (BIOL)

BIOL 3140: Principles of Molecular Cell Biology

BIOL 3350: Principles of Human and Other Animal Physiology

BIOL 3350L: Principles of Human and Other Animal Physiology Laboratory

BIOL 3500: Comprehensive Human Anatomy

BIOL 3510: Comparative Chordate Anatomy

BIOL 3520: Vertebrate Histology

BIOL 3530: Introductory Parasitology

BIOL 3650: Vertebrate Biology

BIOL 4020: Introduction to Pathology

BIOL 4030: Introduction to Pathology II

BIOL 4230: Developmental Biology

BIOL 4230L: Developmental Biology Laboratory

BIOL 4280: Cell Biology

## **Iowa State University Courses accepted as Upper-Level Biomedical Science (continued)**

BIOL 4340: Endocrinology

BIOL 4360: Neurobiology

### **Biomedical Sciences (BMS)**

BMS 3290 – Anatomy and Physiology of Domestic Animals

BMS 4380 – Principles of Physiology

BMS 4390 – Principles of Pharmacology

BMS 4470 – Introduction to Human Gross Anatomy

BMS 4480 – Principles of Human Gross Anatomy

### **Genetics (GEN)**

GEN 4090 – Molecular Genetics

### **Kinesiology (KIN)**

KIN 3580 – Exercise Physiology

KIN 4720 – Neural Basis of Human Movement

KIN 4800 – Functional Anatomy

### **Microbiology (MICRO)**

MICRO 3020 – Biology of Microorganisms

MICRO 3100 – Medical Microbiology

MICRO 3200 – Molecular and Cellular Bacteriology

MICRO 3530 – Introductory Parasitology

MICRO 4020 – Microbial Genetics and Genomics

MICRO 4080 - Virology

MICRO 4280 – Principles of Epidemiology and Population Health

MICRO 4750 – Immunology

### **Toxicology (TOX)**

TOX 4010 – Principles of Toxicology

TOX 4260 – Veterinary Toxicology

### **Veterinary Pathology (VPTH)**

VPTH 3530 – Introductory Parasitology

VPTH 4020 – Introduction to Pathology