

## Undergraduate Veterinary Science

### **VTSC 3317. Zoonotic Diseases. 3 Credit Hours (Lecture: 3 Hours, Lab: 0 Hours).**

Zoonotic disease etiologies occurring in North America and global trans-boundary diseases. A systematic approach of describing infection and disease states to compare differences and similarities across affected species. Prerequisites: BIOL 1406 or 1407; and ANSC 2350 or ANSC 2450 or BIOL 2402; or approval of the department head.

### **VTSC 4313. Animal Welfare. 3 Credit Hours (Lecture: 3 Hours, Lab: 0 Hours).**

Course content includes and focuses on the ethics of animal use; physiological and psychological aspects of adverse states; examination of animal environments; the role of the veterinary profession in animal welfare; knowledge and understanding of welfare issues, animal legislation, and cruelty law; and further characterization and understanding of the human-animal bond. Prerequisites: BIOL 1406 or BIOL 1407; and either ANSC 2350 or ANSC 2450 or BIOL 2402; or approval of the department head.

### **VTSC 4321. Companion Animal Diseases and Health Management. 3 Credit Hours (Lecture: 3 Hours, Lab: 0 Hours).**

Diseases affecting various organ and body systems of companion animals, including etiology, clinical signs, pathophysiology, diagnostics, treatment options, and prevention. Prerequisites: BIOL 1406 or BIOL 1407; and ANSC 2350 or ANSC 2450 or BIOL 2402; or approval of the department head.

### **VTSC 4323. Companion Animal Nutrition & Care. 3 Credit Hours (Lecture: 3 Hours, Lab: 0 Hours).**

The essentials of companion animal nutrition including pet food regulation ingredients, labels and guaranteed analysis. Life cycle feeding management of healthy pets and during disease and debilitating injury. Prerequisites: BIOL 1406 or BIOL 1407; and ANSC 2350 or ANSC 2450 or BIOL 2402; or approval of the department head.

### **VTSC 4337. Equine Colic. 3 Credit Hours (Lecture: 3 Hours, Lab: 0 Hours).**

This course explores the various etiologies and physiological responses of horses that are afflicted with gastrointestinal insufficiency. Each of the 5 main causative factors of equine colic are discussed and evaluated for health implications and recovery. Prerequisites: BIOL 1406 or BIOL 1407; and either ANSC 2350 or ANSC 2450 or BIOL 2402; or approval of the department head.

### **VTSC 4331. Equine Diseases and Health Management. 3 Credit Hours (Lecture: 3 Hours, Lab: 0 Hours).**

Diseases affecting various organ and body systems of the equine, including etiology, pathophysiology, clinical signs, diagnostics, treatment options, and prevention. Prerequisite: BIOL 1406 or BIOL 1407; and either ANSC 2350 or BIOL 2402; or approval of the department head.

### **VTSC 4353. Shelter Animal Medicine I. 3 Credit Hours (Lecture: 3 Hours, Lab: 0 Hours).**

Evaluate protocols to enhance physical health and well-being of shelter animals, recognition and response to common health threats and infectious disease outbreaks. Medical concepts related to population management, sanitation, facility design, and housing. Address animal cruelty in multiple species; investigate critical shelter animal behavior and welfare concepts including behavioral assessments, behavioral modification protocols, diagnosis of common behavioral problems, and medical treatments of selected behavioral disorders; address spay/neuter protocols in shelters. Prerequisites: BIOL 1406 or BIOL 1407; and either ANSC 2350 or ANSC 2450 or BIOL 2402; or approval of the department head.

### **VTSC 4355. Shelter Animal Medicine II. 3 Credit Hours (Lecture: 3 Hours, Lab: 0 Hours).**

Study of shelter animal medicine and its role in disaster management. Special considerations for animal shelter management and for animal care and evaluation resulting from natural disasters. FEMA procedures for animal shelters. Prerequisite: VETE 4254 or VTSC 4353.

### **VTSC 4356. Veterinary Forensics. 3 Credit Hours (Lecture: 3 Hours, Lab: 0 Hours).**

Procedures and protocols used when processing an animal crime scene; the role and responsibility of the veterinarian and veterinary professionals within the legal system; special considerations for animal cruelty; examination of the animal with special considerations for animal cruelty, postmortem changes, and forensic entomology. Explore areas of trauma and injury of common interest to forensics, such as: blunt force trauma, sharp force injury, burn-, electrical-, and fire-related injuries, and firearm injuries. Prerequisites: BIOL 1406 or BIOL 1407; and ANSC 2350 or ANSC 2450 or BIOL 2402; or approval of the department head.

### **VTSC 4372. Equine Forensics: Cruelty. 3 Credit Hours (Lecture: 3 Hours, Lab: 0 Hours).**

Assessment and investigation into large animal (equine) cruelty cases. It covers and describes methods for assessing starvation, body condition scoring, hoof care, dental care, and accidental and non-accidental injuries. Course content is presented entirely online. Prerequisite: BIOL 1406 or BIOL 1407; ANSC 2350 or ANSC 2450 or BIOL 2402.

### **VTSC 4381. Veterinary Law and Ethics. 3 Credit Hours (Lecture: 3 Hours, Lab: 0 Hours).**

This course is designed to provide students with an understanding of the legal principles required by State and National licensing boards within the scope of veterinary practices. Emphasis is placed on the principles and policies which veterinarians and technicians receive through continuing education in order to maintain license. Prerequisite: Junior classification; or approval of the department head.