Course Information Form (CIF)

Course Code: VTT 213
Course Title: Animal Management

Department: Allied Health
PCS Code: 1.2 - Occupational/Technical Instruction
CIP Code: 01.8301
Repeatability: 0

Effective Date: Summer 2026

Credit Hours

Catalog Notation: 4-0-4
Credit Hour Distribution:

Lecture: 4	Lab: 0	Clinical: 0	**Total: 4**

General Course Information

Catalog Description

Selected principles of animal and business management in veterinary technology: nutrition, reproduction, vaccinations, diseases, laboratory tests, history taking, costs, and client questions. Animals covered are the horse, cow, dog, cat, pig, and sheep.

General Course Objectives

Demonstrate identification and treatment of common diseases in the following animals: horse, cow, dog, cat, pig, and sheep.

Minimum Placement Levels

English	Reading	Math
Placement out of ENG 099	Placement out of CCS 099	Placement out of MAT 072

Prerequisites

Credit in VTT 210, VTT 212, VTT 214, and BIO 123
Admission into the Veterinary Technology program

Methods of Evaluation

8-12 assessments and 1 final exam.

Instructional Materials and Additional Supplies

VTT 213 Course Notes, Laura Sutter, DVM.

Course Content

General Learning Outcomes (GLOs)

- Critical Thinking and Information Literacy: Students will demonstrate the ability to evaluate perspectives, evidence, and implications, and to locate, assess, and use information effectively.
- Reasoning and Inquiry: Students will demonstrate the ability to solve problems using deductive reasoning and logic, quantitative reasoning, or the scientific method.

Course Segments and Student Learning Outcomes

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Laboratory Tests	1. Discuss the reasons common laboratory tests are performed with reference to the condition and organ being assessed. 2. Compare and communicate results from these laboratory tests when given case studies.	1	0	0
Organized Medicine and Prescription Medications	1. Examine the advantages of membership in professional organizations such as the AVMA, ISVMA, and NAVTA. 2. Define the Veterinary-Client-Patient-Relationship (VCPR). 3. Differentiate the use of FDA drugs, generic drugs, compounded drugs, and Extra-Label Drug Use (ELDU).	1	0	0
Bovine Diseases	1. Compare commonly occurring and/or economically important bovine diseases. 2. Correlate cause, clinical signs, diagnosis, and treatment of these common diseases.	4	0	0
Bovine Digestive Disorders	1. Correlate ruminant digestive anatomy, digestion, and pathologic conditions involving the digestive tract.	1	0	0
Bovine Metabolic Disorders	1. Characterize nutritional and metabolic physiology of high-producing dairy cows, including the homeostatic balance of a variety of common metabolic conditions.	1	0	0
Mastitis	1. Compare types of mastitis with regard to cause, clinical signs, diagnosis, and treatment. 2. Examine the economic impact of mastitis on a dairy herd.	1	0	0
Bovine Reproduction	1. Compare proestrus, estrus, metestrus, diestrus, and anestrus in cattle. 2. Classify reproduction data relevant to dairy operations including important dates, estrus cycle, breeding, gestation, parturition, male data, pregnancy diagnosis, and heat detection. 3. Discuss theory, techniques, and consideration of when embryo transplants should be used.	2	0	0
Bovine Vaccination	1. Classify the various vaccinations used on cattle. 2. Explain proper vaccine handling.	0.5	0	0
Bovine Parasites	1. Categorize common bovine parasites and discuss life cycle, clinical signs, and diagnosis. 2. Compare the common dewormers used in cattle and which parasites they treat.	1	0	0
Bovine Nutrition	1. Classify the nutritional requirements of cattle with regard to their digestive system, energy needs, protein needs, and vitamin needs. 2. Compare common feedstuffs used for cattle. 3. Discuss growth stimulants including composition, effects, administration, and precautions.	0.5	0	0

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Equine Diseases	1. Characterize commonly occurring and/or important equine diseases. 2. Discuss and compare cause, clinical signs, diagnosis, and treatment of these common diseases.	6	0	0
Equine Neonatology	1. Characterize commonly occurring pathologic conditions affecting the equine neonate. 2. Discuss and compare cause, clinical signs, diagnosis, and treatment of these common conditions.	1	0	0
Equine Reproduction	1. Clinically correlate the equine reproductive cycle including mare reproductive physiology and management, breeding, artificial insemination, equine abortion, gestation, foaling, stallion reproductive physiology and management, and embryo transfer.	1	0	0
Equine Vaccination	1. Compare the various types of vaccinations available. 2. List and contrast core vaccines versus the risk-based vaccines for horses. 3. Differentiate general vaccination guidelines for adult horses, pregnant mares, and foals.	1	0	0
Equine Parasites	1. Categorize common equine parasites and discuss life cycle, clinical signs, and diagnosis. 2. List and compare the common dewormers used in horses and which parasites they treat.	1	0	0
Equine Nutrition	1. Classify the nutritional requirements of horses with regard to their digestive system, energy needs, carbohydrates needs, protein needs, fats, and vitamin needs. 2. List and compare the common feedstuffs used for horses. 3. Break down nutritional guidelines for horses.	1	0	0
Canine Diseases	1. Classify commonly occurring and/or important canine diseases. 2. Discuss and compare cause, clinical signs, diagnosis, and treatment of these common diseases.	7	0	0
Heartworm	1. Diagram the life cycle of heartworms. 2. Classify clinical signs, diagnosis, treatment, and prevention of heart worms in dogs and cats.	1	0	0
Canine Reproduction	1. Compare proestrus, estrus, diestrus, and anestrus as related to the reproductive cycle in the bitch. 2. Correlate breeding, artificial insemination, gestation, whelping, false pregnancy, and other conditions associated with female canine reproduction. 3. Explain male reproductive physiology and other conditions associated with male canine reproduction.	1	0	0
Canine Vaccination	1. Classify the various types of vaccinations available. 2. Compare and categorize core vaccines versus the risk-based vaccines for dogs. 3. Categorize general vaccination guidelines for puppies and adult dogs. 4. Discuss antibody titers in relation to vaccination. 5. Discuss adverse reactions in dogs.	1	0	0
Canine Parasites	1. Categorize common canine parasites and discuss life cycle, clinical signs, and diagnosis. 2. Compare the common dewormers used in dogs and which parasites they treat.	2	0	0

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Canine Nutrition	1. Discuss the regulation of pet food in the US and the AAFCO. 2. Classify the nutritional requirements of dogs with regard to their digestive system, energy needs, carbohydrates needs, protein needs, fats, and vitamin needs. 3. Contrast nutritional guidelines for adult dogs, pregnant and nursing females, and puppies.	0.5	0	0
Feline Diseases	1. Classify commonly occurring and/or important feline diseases. 2. Discuss and compare cause, clinical signs, diagnosis, and treatment of these common diseases.	6	0	0
Feline Reproduction	1. Compare proestrus, estrus, diestrus and anestrus as related to the reproductive cycle in the queen. 2. Correlate breeding, gestation, queening, and other conditions associated with female feline reproduction. 3. Explain the male reproductive physiology and other conditions associated with male feline reproduction.	1	0	0
Feline Vaccination	1. Classify the various types of vaccinations available. 2. Compare and categorize core vaccines versus the risk-based vaccines for cats. 3. Contrast general vaccination guidelines for kittens and adult cats. 4. Discuss antibody titers in relation to vaccination. 5. Discuss adverse reactions in cats.	1	0	0
Feline Parasites	1. Categorize common feline parasites and discuss life cycle, clinical signs, and diagnosis. 2. Compare the common dewormers used in cats and which parasites they treat.	0.5	0	0
Feline Nutrition	1. Classify the nutritional requirements of cats with regard to their digestive system, energy needs, carbohydrates needs, protein needs, fats, and vitamin needs. 2. Discuss obesity and water consumption in cats.	0.5	0	0
Rabies	1. Communicate the risk of multi-species transmission and zoonotic consequences with special emphasis on symptoms exhibited by dogs, cats, livestock animals, and wildlife; vaccinations; and submission and handling of sample and quarantines.	1	0	0
Sheep and Goat Diseases	1. Describe the different characteristics and behavior of sheep versus goats. 2. Classify commonly occurring and important sheep and goat diseases. 3. Discuss and compare cause, clinical signs, diagnosis, and treatment of these common diseases.	3	0	0
Sheep and Goat Reproduction	1. Discuss the reproduction system of the doe, ram, and buck. 2. Discuss breeding, pregnancy, gestation, parturition, and the care of newborns. 3. Compare certain reproductive conditions in sheep and goats.	1	0	0
Sheep and Goat Vaccination	1. Classify various vaccinations used on sheep and goats. 2. Correlate vaccination recommendations for sheep and goats.	0.5	0	0

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Sheep and Goat Parasites	1. Categorize common caprine and ovine parasites and discuss life cycle, clinical signs, and diagnosis. 2. Compare common dewormers used in sheep and goats and which parasites they treat. 3. Discuss guidelines when deworming sheep and goats.	0.5	0	0
Sheep and Goat Nutrition	1. Classify the nutritional requirements of sheep and goats with regard to their digestive system, energy needs, protein needs, and vitamin needs. 2. Compare common feedstuffs used for sheep and goats. 3. Discuss general guidelines for nutrition for breeding, gestation, parturition, lactation, and newborns. 4. Discuss the methods of artificially raising lambs and kids.	0.5	0	0
Porcine Diseases	1. Classify commonly occurring and/or important swine diseases. 2. Discuss and compare cause, clinical signs, diagnosis, and treatment of these common diseases.	3	0	0
Porcine Reproduction	1. Examine the reproduction system including estrus cycle, breeding, gestation, farrowing, boar, and breeding goals. 2. Differentiate certain reproductive conditions in pigs.	1	0	0
Porcine Vaccination	1. Classify and compare the various vaccinations recommended for use in pigs.	0.5	0	0
Porcine Parasites	1. Categorize common porcine parasites and discuss life cycle, clinical signs, and diagnosis. 2. Compare common dewormers used in pigs and which parasites they treat, and discuss the guidelines when deworming pigs.	1	0	0
Porcine Nutrition	1. Classify the nutritional requirements of pigs with regard to their digestive system, energy needs, protein needs, and vitamin needs. 2. Compare examples of the common feedstuffs used for pigs. 3. Discuss and compare different diets for starter, grower-finisher, gestation, lactation, farrowing, gilt developer, and boars.	0.5	0	0
VTNE Prep	1. Evaluate and interpret various topics in veterinary medicine in preparation for the Veterinary Technician National Examination.	2	0	0

Total Contact Hours

Lecture Hours	Lab Hours	Clinical Hours
60	0	0