

Animal Diseases 2

Course Outcome Summary

Course Information

Organization	Madison Area Technical College
Development Date	5/30/2007
Revised By	James A. Topel
Revised Date	1/1/2009
Course Number	10 - 091 - 108
Instructional Level	Associate Degree
Instructional Area	Animal Husbandry
Division	Agriscience and Technology
Department	Veterinary and Laboratory Animal Technician
Potential Hours of Instruction	36
Total Credits	2

Description

In a course format that targets specific animal species, this course will investigate to greater depth the etiology, clinical signs, transmission, diagnosis, prevention and control of common animal infectious, non-infectious, and traumatic diseases as a sequel to Animal Diseases 1. The course content will also include relevant terminology, review of vaccination principles, and reportable diseases (both state and federal). As a follow-up to Animal Disease 1, this course will have a greater emphasis on non-infectious disease of animals.

Target Population

Third semester Veterinary and Laboratory Animal Technician students who have successfully completed Veterinary Medical Terminology (10-091-170) and Internship (Veterinary Technician) or (Laboratory Animal Technician).

Types of Instruction

Instruction Type	Contact Hours	Credits
Classroom Presentation	36	2

Textbooks

AVMA. *Health Hazards in Veterinary Practice*. **Edition:** 3rd.

McCurnin , Bassert. *Clinical Textbook for Veterinary Technicians*. **Edition:** 6th.

Editor, Cynthia M. Kahn. *The Merck Veterinary Manual*. Merck and Co., Inc.. **Edition:** 9th Edition.

Prerequisites

Internship 10-091-158 Vet Tech (or) Internship 10-091-181 LAT

Exit Learning Outcomes

Core Abilities

- Demonstrate critical thinking
- Communicate effectively
- Develop global awareness

Competencies

1. **Determine the primary causes of disease.**
You will demonstrate your competence:
 - o by participating in class
 - o by completing outside of class assignments
 - o on written evaluations**Your performance will be successful when:**
 - o you attend class regularly, arrive for class on time, and listen attentively during class
 - o you define the primary causes of disease [genetic, degenerative, metabolic, neoplastic, infectious, toxic, traumatic)
 - o you categorize diseases by primary cause [genetic, degenerative, metabolic, neoplastic, infectious, toxic, traumatic)
 - o you submit an assignment detailing a specific animal disease

2. **Determine the processes of disease.**
You will demonstrate your competence:
 - o by participating in class
 - o by completing outside of class assignments
 - o on written evaluations**Your performance will be successful when:**
 - o you attend class regularly, arrive for class on time, and listen attentively during class
 - o you are aware of general disease processes
 - o you can differentiate species-specific diseases
 - o you prioritize common diseases within each species

3. **Determine the clinical signs of disease.**
You will demonstrate your competence:
 - o by participating in class
 - o by completing outside of class assignments
 - o on written evaluations**Your performance will be successful when:**
 - o you attend class regularly, arrive for class on time, and listen attentively during class
 - o you identify pathognomonic signs of certain diseases
 - o you categorize diseases that share common signs

4. **Explore disease prevention and control measures.**
You will demonstrate your competence:
 - o by participating in class
 - o by completing outside of class assignments
 - o on written evaluations**Your performance will be successful when:**
 - o you attend class regularly, arrive for class on time, and listen attentively during class
 - o you identify management techniques utilized to prevent or control disease (e.g. - housing, diet, sanitation)
 - o you describe the types of vaccine available in veterinary medicine
 - o you recognize the type of vaccine available, the route of administration, handling requirements, and causes of vaccine failure
 - o you identify common vaccine schedules for species commonly seen in veterinary practice

5. **Demonstrate proper use of terminology as it relates to disease.**
You will demonstrate your competence:
 - o by participating in class

- o by completing outside of class assignments
- o on written evaluations

Your performance will be successful when:

- o you attend class regularly, arrive for class on time, and listen attentively during class
- o you define terms as presented
- o you use appropriate veterinary medical terminology in the completion of assignments and written evaluations

6. Determine the infectious diseases for which animals are vaccinated.

You will demonstrate your competence:

- o by participating in class
- o by completing outside of class assignments
- o on written evaluations

Your performance will be successful when:

- o you attend class regularly, arrive for class on time, and listen attentively during class
- o you discuss common diseases within rodent species in which we vaccinate; the vaccine type; vaccine schedule; vaccine route of administration; vaccine efficacy; possible side-effects of vaccine administration.
- o you discuss common diseases within rabbit species in which we vaccinate; the vaccine type; vaccine schedule; vaccine route of administration; vaccine efficacy; possible side-effects of vaccine administration.
- o you discuss common diseases within avian species in which we vaccinate; the vaccine type; vaccine schedule; vaccine route of administration; vaccine efficacy; possible side-effects of vaccine administration.
- o you discuss common diseases within companion animal species in which we vaccinate; the vaccine type; vaccine schedule; vaccine route of administration; vaccine efficacy; possible side-effects of vaccine administration.
- o you discuss common diseases within livestock species in which we vaccinate; the vaccine type; vaccine schedule; vaccine route of administration; vaccine efficacy; possible side-effects of vaccine administration.

7. Discuss non-infectious causes of disease (toxicology, genetic, degenerative, metabolic, neoplastic, nutritional, traumatic].

You will demonstrate your competence:

- o by participating in class
- o by completing outside of class assignments
- o on written evaluations

Your performance will be successful when:

- o you attend class regularly, arrive for class on time, and listen attentively during class
- o you place non-infectious diseases into etiologic categories
- o you recognize the multi-level etiology of non-infectious disease (e.g. - laminitis, hip dysplasia)
- o you recognize common toxicological diseases as they pertain to specific species (e.g. - plants, salt, lead, rodenticides, monensin, chocolate, ethylene glycol, etc.)
- o you recognize common genetic diseases as they pertain to specific species (e.g. - hip dysplasia, cryptorchidism, cataracts, progressive retinal atrophy, HYPP, etc.)
- o you recognize common degenerative diseases as they pertain to specific species (e.g. - arthritis, kidney failure, congestive heart disease, blindness, etc.)
- o you recognize common neoplastic diseases as they pertain to specific species (e.g. - mast cells, hemangiosarcoma, malignant lymphoma, squamous cell carcinoma, osteosarcoma, melanoma, etc.)
- o you recognize common metabolic diseases as they pertain to specific species (e.g. - pancreatitis, milk fever, ketosis, heat stroke, etc.)
- o you recognize common endocrine diseases as they pertain to specific species (e.g. - diabetes, Cushing's, Addison's, hypothyroidism, hyperthyroidism, etc.)

- o you recognize common traumatic diseases as they pertain to specific species (e.g. - HBC, cruciate ligament, lick granuloma, laceration, "proud flesh", down cow syndrome, fractures, blunt trauma, bite wounds, etc.)

8. Explore species-specific diseases.

You will demonstrate your competence:

- o by participating in class
- o by completing outside of class assignments
- o on written evaluations

Your performance will be successful when:

- o you attend class regularly, arrive for class on time, and listen attentively during class
- o you evaluate clinical signs, etiology, transmission, diagnostic evaluations, and treatment options of common species-specific diseases for rodents
- o you evaluate clinical signs, etiology, transmission, diagnostic evaluations, and treatment options of common species-specific diseases for rabbits
- o you evaluate clinical signs, etiology, transmission, diagnostic evaluations, and treatment options of common species-specific diseases for avian species
- o you evaluate clinical signs, etiology, transmission, diagnostic evaluations, and treatment options of common species-specific diseases for companion animal species
- o you evaluate clinical signs, etiology, transmission, diagnostic evaluations, and treatment options of common species-specific diseases for livestock
- o you correlate diseases that occur across various species
- o you identify species-specific diseases which have zoonotic potential

9. Discuss relevant state and federal reportable animal disease.

You will demonstrate your competence:

- o by participating in class
- o by completing outside of class assignments
- o on written evaluations

Your performance will be successful when:

- o you attend class regularly, arrive for class on time, and listen attentively during class
- o you determine references available that specify state and federal reportable diseases
- o you identify necessary forms to report state and federal reportable diseases
- o you determine the significance of a reportable disease