ANSCI 2 Course Outline as of Fall 2024

CATALOG INFORMATION

Dept and Nbr: ANSCI 2   Title: INTRO FARM ANIMAL HEALTH
Full Title: Introduction to Farm Animal Health
Last Reviewed: 2/13/2023

Units			Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	3.00		Lecture Scheduled	2.00	17.5	Lecture Scheduled	35.00
Minimum	3.00		Lab Scheduled	3.00	8	Lab Scheduled	52.50
			Contact DHR	0		Contact DHR	0
			Contact Total	5.00		Contact Total	87.50
			Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 70.00   Total Student Learning Hours: 157.50

Title 5 Category: AA Degree Applicable
Grading: Grade or P/NP
Repeatability: 00 - Two Repeats if Grade was D, F, NC, or NP
Also Listed As:
Formerly:

Catalog Description:
In this course students will explore common livestock diseases and fundamentals of immunity.
Students will also discuss the role of livestock technicians in promoting animal health and the
foundation of disease control programs.

Prerequisites/Corequisites:

Recommended Preparation:
Eligibility for ENGL 1A or equivalent

Limits on Enrollment:

Schedule of Classes Information:
Description: In this course students will explore common livestock diseases and fundamentals of
immunity. Students will also discuss the role of livestock technicians in promoting animal health
and the foundation of disease control programs. (Grade or P/NP)
Prerequisites/Corequisites:
Recommended: Eligibility for ENGL 1A or equivalent
Limits on Enrollment:

Transfer Credit: CSU;UC.
Repeatability: Two Repeats if Grade was D, F, NC, or NP

ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:

AS Degree:	**Area**		Effective:	Inactive:
CSU GE:	**Transfer Area**		Effective:	Inactive:
IGETC:	**Transfer Area**		Effective:	Inactive:
CSU Transfer:	Transferable	Effective:	Fall 2011	Inactive:
UC Transfer:	Transferable	Effective:	Fall 2011	Inactive:

CID:
CID Descriptor:AG - AS 136L Animal Health and Sanitation
SRJC Equivalent Course(s):   ANSCI2

Certificate/Major Applicable:
Both Certificate and Major Applicable

COURSE CONTENT

Student Learning Outcomes:
At the conclusion of this course, the student should be able to:
1. Hypothesize cause, system(s) affected, and treatment of common diseases that affect farm animals such as: cattle, sheep, hogs and horses.
2. Describe and determine the selection of proper treatment techniques and handling practices.
3. Discuss best practices of livestock health.

Objectives:
At the conclusion of this course, the student should be able to:
1. Determine the correct application of vaccines and parasite management programs.
2. Demonstrate and understand the role animal behavior plays in individual and herd health
3. Identify common diseases and determine appropriate treatment.
4. Differentiate between pathogenic and non-pathogenic disease.
5. Identify environmental factors contributing to disease.
6. Appraise and identify physiological changes which alter susceptibility to various health problems.
7. Name and demonstrate humane use of equipment for livestock handling.
8. Explain basic principles of biosecurity, including disease prevention programs.
9. Analyze an operational scenario and formulate a preventative program.
10. List common diseases in U.S. livestock production and established control programs.
11. Explain routine health management procedures.

Topics and Scope:

Lecture-Related Topics and Scope:
I. Introduction and Overview
  A. Causative agents of disease
  B. Methods of transmission

C. Principles of prevention
D. Disinfectants
E. Immunity
F. Predisposing disease factors
G. Recognizing unhealthy animals
H. Terminology
    1. common medications that are available
    2. common terms that apply to the various systems of the body
II. Anatomy and Physiology - System Related Diseases
A. Endocrine
B. Reproductive
C. Digestive
D. Cardiovascular
E. Urinary
F. Respiratory
III. Parasites
A. Symptoms, lifecycles, and controls
B. Enteroparasites
C. Ectoparasites
IV. Restraint Types
A. Passive
B. Active
V. Common First Aid Practices
A. Order of treatment
B. Bacterial infection and sanitation
C. Bandaging
VI. Correct Use of Vaccines and Medications
A. Proper techniques or caring and storing of vaccines and medications
B. Proper techniques for administering vaccines and medications

Laboratory-Related Topics and Scope:
I. Properly handling and administering vaccines
II. Handling and restraining farm animals
III. Visual inspection of equine, beef, sheep and swine barns for sanitation threats.
IV. Documentation of all sanitation problems and corrective guidelines.
V. Disease diagnosis and treatment
VI. Cleaning and dressing minor wounds
VII. Bacteria culture and antibiotic plate testing.
VIII. Animal system anatomy and physiology

Laboratory activities will follow lecture topics.

Assignment:

Lecture-Related Assignments:
1. Nine case studies to evaluate disease management
2. One written paper and oral presentation on a disease (2-3 pages)
3. Quizzes (3-5)
4. Midterm (1) and final exam

Lab-Related Assignments:
1. Collaborative and individual lab activities

2. Field work and class performances demonstrating skills related to animal health practices
3. Written lab reports (5-10)

Methods of Evaluation/Basis of Grade:

Writing: Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

Written paper on a disease; lab reports	Writing 10 - 20%

Problem Solving: Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Case studies	Problem solving 10 - 20%

Skill Demonstrations: All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

Field work and class performances; lab activities	Skill Demonstrations 10 - 20%

Exams: All forms of formal testing, other than skill performance exams.

Quizzes and final exam	Exams 50 - 60%

Other: Includes any assessment tools that do not logically fit into the above categories.

Oral presentation on disease paper	Other Category 5 - 10%

Representative Textbooks and Materials:
The Merck Veterinary Manual. 11th ed. Aiello, Susan E. and Moses, Michael A. Wiley. 2016 (classic).
Instructor prepared materials