ANSCI 2 Course Outline as of Fall 2019

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:
Introduction to animal health and disease control in livestock animals. Classification of animal diseases, their causes and appropriate treatments with emphasis on preventative medicine.

Prerequisites/Corequisites:

Recommended Preparation:
Eligibility for ENGL 1A or equivalent

Limits on Enrollment:

Schedule of Classes Information:
Description: Introduction to animal health and disease control in livestock animals. Classification of animal diseases, their causes and appropriate treatments with emphasis on preventative medicine. (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. Determine the selection of proper treatment techniques and handling practices while utilizing appropriate veterinary terminology.
3. Discuss and defend livestock health practices.

Objectives:
Upon completion of the course, students will 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 regimen.
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 proper use of equipment that humanely confines, treats or protects livestock.
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:

I. Introduction and Overview
   A. Historical concepts
   B. Causative agents of disease

C. Methods of transmission
D. Principles of prevention
E. Disinfecting
F. Body defense mechanisms
G. Immunity - classified
H. Predisposing disease factors
I. Recognizing unhealthy animals
J. Terminology
    1. common medications that are available
    2. common terms that apply to the various systems of the body

II. Anatomy and Physiology - Body system and primary system disease
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 activities will follow lecture topics. Laboratory activities will include:
I. Properly Handling and Administering Vaccines
II. Handle and Restrain Farm Animals
III. Treatment Techniques
IV. Administering Pesticide Treatments

Assignment:

Lecture Related Assignments:
1. Case studies to evaluate disease management
2. Written paper and oral presentation on a disease
3. Written lab reports (5-10)
4. Three to five unit quizzes
5. Mid-term (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

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.

Lab reports, written paper on a disease	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.

Class performances, field work, lab activities	Skill Demonstrations 10 - 20%

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

Quizzes, midterm, final exam: multiple choice, true/false, short answer, essay	Exams 50 - 60%

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

Oral presentation	Other Category 5 - 10%

Representative Textbooks and Materials:
Introduction to Veterinary Science. 3rd ed. Lawhead, James and Baker, Meecee. Cengage. 2016
Animal Health. 3rd ed. Jackson, Nancy and Baker, James and Greer, William. Pearson. 2000 (classic)
Instructor prepared materials