ASCI 104: LIVESTOCK DISEASE & SANITATION

Proposer:

Name:	Email:
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Effective Term:
Fall 2021

Credit Status:
Credit - Degree Applicable

Subject:
ASCI - Animal Science

Course Number:
104

Catalog Title
Livestock Disease and Sanitation

Catalog Description
Study of common infectious and non-infectious livestock diseases, with emphasis on proper management, prevention, treatment, and sanitation procedures for cattle, swine, sheep, and horses.

Method of Instruction:
Distance Education
Laboratory
Lecture and/or Discussion

Course Units/Hours:

Course Units Minimum:
3

Lecture Hours Minimum (week)
3

Lab Hours Minimum (week)
1

Activity Hours Minimum (week)
0

Total Contact Hours Minimum (semester)
70

Total Outside Hours Minimum (semester)
105

Total Student Learning Minimum Hours (semester)
175

Repeatability:
No

Open Entry/Exit:
No

Field Trips:
Not Required

Grade Mode:
Standard Letter

TOP Code:
010200 - * Animal Science

SAM Code:
C - Clearly Occupational

Course Content

Methods of Assessment:
Essay quizzes or exams
Mulitple choice tests
Oral presentations
Problem solving assignments or activities
Project
Short answer quizzes or exams
Skill demonstrations
Written essays or extended papers

Course Topics:

	Course Topics
1	Historical concepts of disease and sanitation
2	Causative agents of foodborne illness, common carrier species, clinical signs in humans, and methods of prevention
3	Parasite identification (endoparasites vs. ectoparasites), life cycle, species affected, clinical signs, treatment, and prevention, as well as formulation of basic parasite prevention programs
4	Restraint of livestock species
5	Anatomy and physiology as it relates to disease processes
6	Infectious and non-infectious diseases affecting livestock species, including name, causative agent, clinical signs, treatment, and prevention
7	Toxic plant identification, species affected, clinical signs, and treatment and prevention

Course Objectives:

	Course Objectives
1	Describe the importance of promoting livestock health and the link between livestock and foodborne illness.
2	Analyze an operational scenario and formulate a species and disease-appropriate preventative program (vaccine schedule).
3	List regulations for the transport of livestock in the US.
4	Explain basic principles of biosecurity and the importance of proper sanitation.
5	Identify environmental factors contributing to disease and sanitation.
6	Name and demonstrate proper use of equipment that humanely confines, treats, or protects livestock.
7	Differentiate between infectious and non-infectious disease.
8	Identify the cultural influences in history that have led to animal health advancements.
9	Demonstrate and understand the role animal behavior plays in individual and herd health.
10	Identify toxic plants for livestock and describe clinical signs associated with intoxication.
11	Differentiate between internal and external parasites and implement parasite control and prevention programs.
12	Identify career opportunities in the animal health industry.

Course Outcomes:

	Course Outcomes
1	Upon completion of this course, students will be able to recognize and comment on specific infectious and non-infectious diseases in livestock.
2	Upon completion of this course, students will be able to describe and discuss the common effects of internal and external parasites.
3	Upon completion of this course, students will be able to explain and develop a practical sanitation program for a livestock facility.
4	Lab vaccination assessment: Students will be able to consider and propose a vaccination protocol for different species of livestock for the prevention of disease.

Assignments:

Assignment Type:	Details
Lab	On a given operation, students will be able to properly identify sanitation issues and/or management problems and offer solutions.
Writing	Students will write a research paper on a given disease. Students will present their report to the class and turn in the written report in MPA format.
Reading	Students will be required to read chapters in their text book and answer instructor created questions relating to the chapters.
Homework	Students will be given disease terms to define from their text book and will have to relate them to a hands on lab. (example: Vaccinations).

Textbooks or other support materials

Resource Type:	Details
Books	Veterinary Medicine: A textbook of the diseases of cattle, horses, sheep, pigs and goats - two-volume set 11th Edition by Peter D. Constable BVSc MS PhD Dipl ACVIM (Author), Kenneth W Hinchcliff BVSc MS PhD DACVIM (Large Animal) (Author), Stanley H. Done BA BVetMed PhD DECPHM DECVP FRCVS FRCPath (Author) ISBN 9780702052460 Product Dimensions : 9.7 x 4.4 x 11.8 inches ISBN-13 : 978-0702052460 Publisher : Saunders Ltd.; 11th Edition (January 5, 2017)

Transferable to CSU

Yes - Approved

CSU General Education

Transferable to CSU

Other Degree Attributes

Degree Applicable
Not a Basic Skills Course

Distance Learning Addendum

DLA-Approved-ASCI 104.pdf

Banner Title:

Livestock Disease & Sanitation

Curriculum Committee Approval Date:

03/25/2021

Academic Senate Approval Date:

04/14/2021

District Governing Board Approval Date:
05/10/2021

Course Control Number:
CCC000526172