

ANSCI 171 Course Outline as of Summer 2017**CATALOG INFORMATION**

Dept and Nbr: ANSCI 171 Title: BEHAVIOR & HUMANE MGMT

Full Title: Livestock Behavior and Humane Management

Last Reviewed: 1/22/2018

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	1.00	Lecture Scheduled	1.00	17.5	Lecture Scheduled	17.50
Minimum	1.00	Lab Scheduled	0	6	Lab Scheduled	0
		Contact DHR	0		Contact DHR	0
		Contact Total	1.00		Contact Total	17.50
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 35.00

Total Student Learning Hours: 52.50

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: AG 280.65

Catalog Description:

Introduction to livestock behavior and the evolution of behavioral traits. Introduces practical handling concepts and facilities design, to facilitate low-stress methods of livestock management. Explores the benefits of keeping animals calm, including safer working conditions, higher yields of marketable product, better-quality product, and more humane conditions.

Prerequisites/Corequisites:**Recommended Preparation:**

Eligibility for ENGL 100 or ESL 100

Limits on Enrollment:**Schedule of Classes Information:**

Description: Introduction to livestock behavior and the evolution of behavioral traits. Introduces practical handling concepts and facilities design, to facilitate low-stress methods of livestock management. Explores the benefits of keeping animals calm, including safer working conditions, higher yields of marketable product, better-quality product, and more humane

conditions. (Grade or P/NP)

Prerequisites/Corequisites:

Recommended: Eligibility for ENGL 100 or ESL 100

Limits on Enrollment:

Transfer Credit:

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:
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CSU Transfer:	Effective:	Inactive:
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UC Transfer:	Effective:	Inactive:
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CID:

Certificate/Major Applicable:

Certificate Applicable Course

COURSE CONTENT

Outcomes and Objectives:

The student will:

- 1) Recognize and understand basic terms and concepts of livestock behavior, including the history and science of ethology.
- 2) Identify and understand the basic processes that shape livestock behavior.
- 3) Assess the relevance of livestock behavior to humane handling.
- 4) Apply critical thinking and problem-solving skills to develop humane livestock handling systems and facilities.
- 5) Acquire the technical skills necessary for humane handling of cattle, sheep, goats, swine and horses in a field setting.

Topics and Scope:

- 1) History of ethology
 - a) Domestication
 - b) Ethics
- 2) Benefits of humane handling
 - a) Working conditions
 - b) Animal Product quality
 - c) Quality of Life
- 3) Animal Perception
 - a) Genetics influences
 - b) Learned behavior
 - i) Critical periods
 - ii) Learning and training
 - c) Stress

- i) Perceptions
- ii) Sensations
- 4) Handling Livestock
 - a) Predator Prey Patterns
 - b) Handling practices that use animal instinct
- i) Gathering
- ii) Movement
- iii) Crowding
- iv) Sorting
- v) Transportation
- vi) Processing
- 5) Species Specific Handling Facilities
 - a) Cattle Handling
 - i) Design
 - (1) Location and layout
 - (a) Curved systems
 - (b) Solid siding
 - (c) Corrals
 - (d) Footing
 - ii) Restraint practices
 - b) Swine Handling
 - i) Design
 - (1) Location and layout
 - (a) Curved systems
 - (b) Solid siding
 - (c) Pens
 - (d) Footing
 - ii) Restraint practices
 - c) Sheep Handling
 - i) Design
 - (1) Location and layout
 - (a) Curved systems
 - (b) Solid siding
 - (c) Corrals
 - (d) Footing
 - (2) Restraint practices
 - d) Goat Handling
 - i) Design
 - (1) Location and layout
 - (a) Curved systems
 - (b) Solid siding
 - (c) Corrals
 - (d) Footing
 - (2) Restraint practices
 - e) Horse Handling
 - i) Design
 - (1) Location and layout
 - (2) Restraint practices

Assignment:

1. Read periodicals, handouts, and texts (20 to 30 pages per week)

2. Facilities design
3. Quizzes, tests, mid-term and final exam
4. Practical skills exam

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.

None, This is a degree applicable course but assessment tools based on writing are not included because problem solving assessments and skill demonstrations are more appropriate for this course.

Writing
0 - 0%

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

Facilities design

Problem solving
10 - 10%

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

Practical skill demonstrations

Skill Demonstrations
40 - 55%

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

Multiple choice, True/false, Matching items, Completion

Exams
35 - 50%

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

None

Other Category
0 - 0%

Representative Textbooks and Materials:

Humane Livestock Handling: Understanding livestock behavior and building facilities for healthier animals. By Temple Grandin Publisher Storey Publishing (2008).

The following texts are classics in the field:

Social Behavior in Farm Animals By Linda J. Keeling, Harold W. Gonyou. Publisher CABI (2001)

The Ethology of Domestic Animals: an introductory text. By Per Jensen Publisher CABI (2002)

Animal Domestication and Behavior By Edward O. Price CABI (2002)

Principles of Animal Behavior By Lee Alan Dugatkin 1st edition, 2004