ASCI 002: LIVESTOCK SELECTION/EVALUATION

Proposer:

Name:	Email:
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Effective Term:
Fall 2024

Credit Status:
Credit - Degree Applicable

Subject:
ASCI - Animal Science

Course Number:
002

Discipline:

And/Or	(	Discipline	)
		Agricultural Production (Animal science, plant science, beekeeping, aquaculture)	

Catalog Title
Livestock Selection/Evaluation

Catalog Description
Detailed analysis of various visual and physical methods of appraising beef, sheep, and swine concerning functional and economic value. Written and oral summaries of evaluation will be learned. Specific reference will be made to performance data and factors determining carcass value.

Method of Instruction:
Distance Education (Emergency Addendum)
Laboratory
Lecture and/or Discussion

Course Units/Hours:

Course Units Minimum:
3

Lecture Hours Minimum (week)
3

Lab Hours Minimum (week)
1

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:
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
Short answer quizzes or exams
Written essays or extended papers

Course Topics:

	Course Topics
1	Introduction of Evaluation
2	Visual Evaluation Breeding Sheep
3	Visual Evaluation of Breeding Beef Cattle
4	Scoring System for Keep-Cull Classes
5	Selection of Feeder Livestock
6	Evaluation of Sheep Performance Data
7	Live Market Lamb Evaluation
8	Evaluation of Beef Cattle Performance Data
9	Live Market Cattle Evaluation
10	Breeding Swine Evaluation
11	Live Market Hog Evaluation
12	Supplement Aids in Livestock Evaluation
13	Livestock Improvement Through Selection
14	Growth, Development, and Fattening of Meat Animals

Course Objectives:

	Course Objectives
1	Identify common breeds of livestock.
2	Discuss the importance of livestock evaluation within various career opportunities.
3	Identify anatomical points on the live animal analogous to the areas of the carcass.
4	Identify external, anatomical features of livestock.
5	Organize classes of live animals based on economically important traits.
6	Develop and hone the power of observation and memory.
7	Describe and compare animals with proper livestock terminology in both oral and written form.
8	Identify the factors that affect carcass quality and yield grades.

9	Illustrate an animal's performance potential and select the most efficient animals for marketability.
10	List traits that cannot be greatly altered through selective breeding.
11	Indentify traits most economically important.
12	Define traits needing improvement in a breeding herd.
13	Demonstrate how to combine "eyeball" or subjective evaluation with objective methods of evaluation (production records, etc.).
14	Discuss the process of meat animal growth, development and finishing.

Course Outcomes:

	Course Outcomes
1	Upon completion of this course, students will be able to list all traits that can be altered through selective breeding.
2	Upon completion of this course, students will be able to list and identify traits that are most economically important to the given production scenario.
3	Upon the completion of this course, students will be able to discuss the process of meat animal growth, development and finishing.
4	Upon completion of this course, students will be able to combine subjective and objective means of livestock evaluation.

Assignments:

Assignment Type:	Details
Reading	In a possible reading assignment, students will be assigned a reading project from a breed association publication. This assignment will require students to apply information from the article to their laboratory selection practice.
Writing	In a possible writing assignment, students will defend their selection order for a given class of livestock. Students must use language and terminology acceptable to the livestock industry.
Homework	In a possible homework assignment, students will utilize research information provided by breed associations to compose a one - two page college level paper (MLA style) listing advantages and disadvantages of a given breed of livestock.
Lab	Animals are grouped by market standards and gender. Based upon conditions established by the USDA, animals are placed 1st through 4th within the group using breed appraisal to best match the stated scenario.

Textbooks or other support materials

Resource Type:	Details
Web/Other	www.icevonline.com
Books	Managing Healthy Livestock Production and Consumption. Nadia El-Hage Scialabba. Elsevier, 2021. 9780128230190
Books	Livestock and Carcasses Boggs, Merkel, Doumit & Brane Kendall/Hunt Publsihing Company 6 2006 139780757520594
Books	The art and science of livestock evaluation. R. V. Herren. Cengage Learning, 2009. 9781428335929

Equity Review:

Yes

Transferable to CSU

Yes - Approved

CSU General Education

Transferable to CSU

This course will also be proposed for UC transfer.
Yes

Transferable to UC
Yes - Approved

UC/IGETC General Education
Transferable to UC

Other Degree Attributes
Degree Applicable
Not a Basic Skills Course

Banner Title:
Livestock Selection/Evaluation

Curriculum Committee Approval Date:
03/06/2024

Academic Senate Approval Date:
03/13/2024

District Governing Board Approval Date:
04/08/2024

Course Control Number:
CCC000338090