



# ASCI 002: LIVESTOCK SELECTION/EVALUATION

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**Proposer:**

Name:	Email:
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**Effective Term:**

Fall 2020

**Credit Status:**

Credit - Degree Applicable

**Subject:**

ASCI - Animal Science

**Course Number:**

002

**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:**

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
- Multiple 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	Horse Evaluation
7	Evaluation of Sheep Performance Data
8	Live Market Lamb Evaluation
9	Evaluation of Beef Cattle Performance Data
10	Live Market Cattle Evaluation
11	Breeding Swine Evaluation
12	Live Market Hog Evaluation
13	Supplement Aids in Livestock Evaluation
14	Livestock Improvement Through Selection
15	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	Identify 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
Books	Livestock and Carcasses Boggs, Merkel, Doumit & Brane Kendall/Hunt Publishing Company 6 2006 139780757520594
Books	The art and science of livestock evaluation. R. V. Herren. Cengage Learning, 2009. 9781428335929

**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:**

04/30/2019

**Academic Senate Approval Date:**

05/08/2019

**District Governing Board Approval Date:**

05/13/2019

**Course Control Number:**

CCC000338090