

SOUTHEAST COMMUNITY COLLEGE
COURSE SYLLABUS
TRAN-WELDING-AG
Agriculture Management & Production Program
Revision Date: August 2020
[Syllabus Statements](#)

I. CATALOG DESCRIPTION

Course Number: AGRI 1010
Course Title Fundamentals of Animal Biology
Prerequisite(s): AGRI

Catalog Description: Overview of the animal science industry and the application in the industry. Current issues and trends to the production and consumption of animal products.

Credit Hours: 4.0
Class Hours: 45
Lab Hours: 45
Total Contact Hours: Total Class + Lab Hours 90

II. COURSE OBJECTIVES: *Course will:*

1. Explain what is Animal Science and the value if animals to humanity.
2. Explore cellular biology and animal taxonomy.
3. Describe the biological processes in digestion, reproduction, and genetics.
4. Analyze how the environment effects animal behavior.
5. Explain management practices in the swine, beef, poultry, sheep, dairy, and companion animal industries.

III. STUDENT LEARNING OUTCOMES AND GENERAL EDUCATION LEARNING OUTCOMES:

A. STUDENT LEARNING OUTCOMES: *Student will be able to:*

1. Give examples of what Animal Science is and how animals are a benefit to humanity.
2. Distinguish between plant and animal cells.
3. Identify the parts of the digestive systems and reproduction systems in farm animals.
4. Use the Punnett Square to predict genetic outcomes form various crosses.
5. Debate the issue of Animal Welfare vs Animal Rights.
6. Compare animal management practices used in the production of livestock and companion animals.

B. GENERAL EDUCATION LEARNING OUTCOMES

GELO #3: Critical Thinking & Problem Solving

Critical thinkers have the ability to evaluate a problem or assumption and determine an appropriate course of action. They use reason and evidence to make judgments and decisions. Critical thinking and problem solving skills rank highly among employer expectations.

Outcomes:

- 1) Collect, identify, interpret and analyze data.
- 2) Synthesize information to arrive at reasoned solutions to problems.

IV. CONTENT/TOPICAL OUTLINE (course outline may provide more detailed information)

- a. What is Animal Science? What are the value of animals to humanity?
- b. Cellular Biology and Animal Taxonomy
- c. Digestion and Nutrition
- d. Reproduction and Genetics
- e. Ethology – Animal Behavior and Welfare
- f. Swine Management and the Swine Industry
- g. Beef Management and the Beef Industry'
- h. Poultry Management and the Poultry Industry
- i. Dairy, Goat, and Sheep Management
- j. Companion Animal Management
- k. Animal Food Products

V. INSTRUCTIONAL MATERIALS

- A. Required Text(s):** No Required Test
- B. Other Resources:** Class notebook and internet access.

VI. METHODS OF PRESENTATION/INSTRUCTION

- A. Methods of presentation typically include a combination of the following:**
Lecture, small group discussions, power point and video presentations, worksheets, demonstrations, guest speakers, field trips, and lab exercises.

VII. METHODS OF EVALUATION

- A. Methods of evaluation typically include a combination of the following:**
 - a. Successful completion of daily projects and assignments.
 - b. Quizzes and Exams
 - c. Demonstrations

SCC STANDARD GRADING SCALE POLICY:

A+ 95-100	C+ 75-79		
A 90-94	C 70-74		
B+ 85-89	D+ 65-69		
B 80-84	D 60-64	F	Below 60

VIII. SPECIFIC COURSE REQUIREMENTS:

- A. Successful completion of daily projects designed to develop specific skills which build upon one another
- B. Successful mastery of lab skills is essential in this class
- C. Students are responsible for backing up their own files onto their network drive and maintaining security.