

SOUTHEAST COMMUNITY COLLEGE
COURSE SYLLABUS
TRAN-WELDING-AG
Livestock Management & Production Program
Revision Date: August 2020

I. CATALOG DESCRIPTION

Course Number: AGRI 2258
Course Title Livestock Ultrasound Technology
Prerequisite(s): AGRI 2231 and AGRI 1257

Catalog Description: Principle and technology of the use of ultrasound and supporting computer analysis software as it pertains to livestock.

Credit Hours: 2.0
Class Hours: 23
Lab Hours: 23
Total Contact Hours: Total of Class + Lab Hours 46

II. COURSE OBJECTIVES: *Course will:*

- a. Explain principles of ultrasonography
- b. Demonstrate functions of ultrasound keyboard
- c. Demonstrate connection between ultrasound and analysis hardware

III. STUDENT LEARNING OUTCOMES AND GENERAL EDUCATION LEARNING OUTCOMES:

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

1. Implement computer software to analyze and interpret ultrasound images
2. Evaluate Carcass composition of live swine, beef, and sheep
3. Evaluate stages of pregnancy of live swine, beef, and sheep

B. GENERAL EDUCATION LEARNING OUTCOMES

GELO #2: Written Communication

Effective written communication includes an awareness of the social nature of communication, including dialogs that occur outside of the classroom. SCC students will have developed the ability to express focused, coherent, and organized original ideas and to analyze, evaluate, and respond to writing in a variety of contexts.

Outcomes:

1. Develop a focused thesis statement and write with a clear purpose, using relevant examples, claims, and evidence.

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

- a. Ultrasound use
- b. Supporting Software
- c. Image analysis
- d. Ultrasound techniques applied to livestock
- e. Student ultrasound project

V. INSTRUCTIONAL MATERIALS

A. Required Text(s): None

B. Other Resources:

calculator, pen, pencil, notebook

VI. METHODS OF PRESENTATION/INSTRUCTION

Methods of presentation typically include a combination of the following:

Includes, but not limited to

- a. Slide, video, research and writing assignments, field trips, and lecture
- b. Lab assignments and tasks
- c. Individualized projects
- d. Group work

VII. METHODS OF EVALUATION

Methods of evaluation typically include a combination of the following:

- a. Quizzes, tests, and exams
- b. Skills tasks
- c. Research Project
- d. Model operation plan
- e. Computer application
- f. Daily evaluation
- g. Level of attendance and participation

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. Appropriate apparel when working with livestock
- b. Group participation and assistance