

SOUTHEAST COMMUNITY COLLEGE
COURSE SYLLABUS
ADVANCED TECHNOLOGIES & SKILLED TRADES
Precision Agriculture
Revision Date: New Course - August 2025

I. CATALOG DESCRIPTION

Course Number: AGRI 1266
Course Title Precision Ag Livestock Technologies
Prerequisite(s): AGRI 1171 or permission

Catalog Description: Study of modern technologies in managing livestock production. It combines principles of animal science and data analysis to improve the efficiency, sustainability, and welfare of livestock farming.

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

II. COURSE OBJECTIVES: *Course will:*

- 1) Explore the different technology tools used in livestock precision agriculture.
- 2) Define precision agriculture from the managerial, technological and social perspectives related to the livestock sector.
- 3) Demonstrate the effective use of precision technology in the livestock sector
- 4) Expose students to evolving technology in the livestock industry

III. STUDENT LEARNING OUTCOMES AND GENERAL EDUCATION LEARNING OUTCOMES:

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

- 1) Compare different types of software and how to utilize them.
- 2) Develop facility designs implementing technology
- 3) Exhibit how to utilize software to create and manage livestock systems
- 4) Describe different ways to implement technology at all levels of production
- 5) Evaluate different applications for making management decisions

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.

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

A. Overview of Precision Livestock Agriculture

- B. Precision Agriculture Tools and Current Trends in Livestock Management
- C. Analyze cost of Implementation of Technology
- D. Facility Design to Handle Technology

V. INSTRUCTIONAL MATERIALS

A. Required Text(s): None

B. Other Resources:

None

VI. METHODS OF PRESENTATION/INSTRUCTION

Methods of presentation typically include a combination of the following:

- a. Methods will include, but not limited to:
Lecture, laboratory assignment and tasks, slide and video presentations, research and writing assignments, field trips, and guest lectures and speakers.
- b. Lab Activities

VII. METHODS OF EVALUATION

Methods of evaluation typically include a combination of the following:

- a. Quizzes, tests, and exams
- b. Skills project and exam
- c. Daily Evaluation
- d. 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:

Successful completion of all exams, projects, and assignments.

- a. Properly and safely operate all college tractors and equipment.
- b. Utilize proper safety eyewear at all times in lab.]