

**SOUTHEAST COMMUNITY COLLEGE**  
**COURSE SYLLABUS**  
**TRAN-WELDING-AG**  
**Agriculture Management & Production Program**  
**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:**

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

**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. ]