

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

I. CATALOG DESCRIPTION

Course Number: AGRI 2295
Course Title Advanced Precision Technology
Prerequisite(s): AGRI 1171 & AGRI 2279

Catalog Description: Evaluate the different forms of agriculture technology. Study the understanding of the theory of GPS & GIS. Collecting and analyzing data for troubleshooting and decision making.

Credit Hours: 3.0
Class Hours: 45
Lab Hours: 0
Total Contact Hours: Total of Class + Lab Hours 45

II. COURSE OBJECTIVES: *Course will:*

- * Explore GPS, GIS, and VRT tools to connect data, analyze data to make management descriptions
- * Understand the process of preparing and transferring a data outline for field connection.
- * Understand what spatial data is and how to use it in decision making
- * Evaluate various types of technology in Agriculture

III. STUDENT LEARNING OUTCOMES AND GENERAL EDUCATION LEARNING OUTCOMES:

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

1. Demonstrate GPS, GIS and VRT tools to make management decisions
2. Prepare and transfer data outlines to use in the field
3. Define and describe the difference between spatial and aspatial data

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.

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

- A. Overview of GPS, GIS, VRT
- B. Spatial Mapping
- C. Aspatial Mapping

- D. Manage Data
- E. Different Mapping Systems

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:

- a. Successful completion of all exams, projects, and assignments.
- b. Properly and safely operate all college tractors and equipment.
- c. Utilize proper safety eyewear at all times in lab