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

I. CATALOG DESCRIPTION

Course Number: **AGRI 1172**
Course Title Ag Precision Hardware
Prerequisite(s): AGRI 1378

Catalog Description: Study of Agriculture Precision Hardware available in the agriculture industry. Install, set-up and troubleshoot field monitors.

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

II. COURSE OBJECTIVES: *Course will:*

1. Identify different types of agriculture hardware.
2. Installation of field monitors
3. Set-up field monitors.
4. Troubleshoot basic problems with agriculture precision hardware.

III. STUDENT LEARNING OUTCOMES AND GENERAL EDUCATION LEARNING OUTCOMES:

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

a. Compare different monitors and which monitors are more user friendly
b. Install a monitor in any piece of farm machinery.
c. Successfully set up a monitor for use on the job.
d. Troubleshoot problems that might arise while in the field with a monitor.

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) Synthesize information to arrive at reasoned solutions to problems.

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

A. Precision Agriculture data collection and mapping using SMS
B. Identify different types of monitors and which monitors benefit you as a producer
C. Install and set-up monitors
D. Troubleshoot basic problems with monitors

V. INSTRUCTIONAL MATERIALS

A. Required Text(s): No Required Test

B. Other Resources:

USB Drive

VI. METHODS OF PRESENTATION/INSTRUCTION

A. Methods of presentation typically include a combination of the following:

1. Presentation methods will include, but not limited to demonstrations, practice activities to develop proficiency and over the shoulder supervision and instruction.

2. Laboratory assignments and projects designed to develop design and problem solving skills

VII. METHODS OF EVALUATION

Methods of evaluation typically include a combination of the following:

A. Successful completion of daily projects and maps

B. Quizzes, papers, etc.

C. Practical Exams

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.