

**SOUTHEAST COMMUNITY COLLEGE**  
**COURSE SYLLABUS**  
**TRAN-WELDING-AG**  
**Agriculture Management & Production Program**  
**Revision Date: August 2020**  
[Syllabus Statements](#)

**I. CATALOG DESCRIPTION**

**Course Number:** AGRI 2212  
**Course Title** Ag Machinery Maintenance  
**Prerequisite(s):** None

**Catalog Description:** Study of engines, hydraulics, and power trains for use in Maintenance of Agriculture machinery. Proper maintenance, adjustment, operation, and minor repair of agricultural power machinery

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

**II. COURSE OBJECTIVES:** *Course will:*

1.

**III. STUDENT LEARNING OUTCOMES AND GENERAL EDUCATION LEARNING OUTCOMES:**

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

1. Identify and discuss the different types of machinery and power machinery utilized in agriculture.
2. Identify and explain major components and functions of each component of the agriculture machinery; such as engine, transmission, gearboxes, and hydraulics.
3. Identify and determine needed repairs, disassemble, and install new components.
4. Determine by reading owner's manual, technical manual, repair manual, or procedure for disassembly, installation, and reassembly of machine components.

**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. Use content and style appropriate to a given audience.

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

- a. Introduction to Agricultural Machinery
- b. Agricultural engines and maintenance
- c. Cabs and safety equipment
- d. Fuels, oils, and lubricants
- e. Machinery manuals and technical manuals
- f. Agricultural machinery repair and maintenance

**V. INSTRUCTIONAL MATERIALS**

**A. Required Text(s):** None

**B. Other Resources:**

Safety glasses, protective clothing, tools (see tools list)

**VI. METHODS OF PRESENTATION/INSTRUCTION**

Methods of presentation typically include a combination of the following:

- a. Laboratory assignments
- b. Field trips
- c. Research from technical manuals

**VII. METHODS OF EVALUATION**

- A. Methods of evaluation typically include a combination of the following:
- B. Skills projects
- C. Quizzes, test, and exams
- D. Daily evaluation

**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:**

- a. Completion of lab project(s) signed
- b. Weekly cleaning of shop and replacement of tools
- c. Utilizing own tools
- d. Utilizing proper safety eyewear
- e. Student will participate in events that relate to this class
- f. Daily attendance of class