**BARTON COMMUNITY COLLEGE**

##### COURSE SYLLABUS

## GENERAL COURSE INFORMATION

Course Number: AGRI 1180

Course Title: Planting Equipment

Credit Hours: Variable 1- 3

Prerequisites: None

Division/Discipline: Workforce Training and Com. Education; CNH Service Training

Course Description: This course will cover different types of planting equipment used in the agriculture industry.

## INSTRUCTOR INFORMATION

## COLLEGE POLICIES

Students and faculty of Barton Community College constitute a special community engaged in the process of education. The College assumes that its students and faculty will demonstrate a code of personal honor that is based upon courtesy, integrity, common sense, and respect for others both within and outside the classroom.

Plagiarism on any academic endeavors at Barton Community College will not be tolerated. The student is responsible for learning the rules of, and avoiding instances of, intentional or unintentional plagiarism. Information about academic integrity is located in the Student Handbook.

The College reserves the right to suspend a student for conduct that is determined to be detrimental to the College educational endeavors as outlined in the College Catalog, Student Handbook, and College Policy & Procedure Manual. (Most up-to-date documents are available on the College webpage).

Any student seeking an accommodation under the provisions of the Americans with Disability Act (ADA) is to notify Student Support Services via email at [disabilityservices@bartonccc.edu](mailto:disabilityservices@bartonccc.edu).

## COURSE AS VIEWED IN THE TOTAL CURRICULUM

This course in one in a series designed to allow a student to repair equipment utilized in the agriculture industry.

## ASSESSMENT OF STUDENT LEARNING

Barton Community College assesses student learning at several levels: institutional, program, degree and classroom.  The goal of these assessment activities is to improve student learning.  As a student in this course, you will participate in various assessment activities.  Results of these activities will be used to improve the content and delivery of Barton’s instructional program.

The student will develop those skills necessary to accurately diagnose and repair planting equipment.

Course Outcomes, Competencies, and Supplemental Competencies:

1. Identify different planting systems.
2. Accurately describe the various configurations of air carts.
3. Accurately describe the various configurations of disc drills.
4. Adjust different planting systems to ensure accurate seed placement.
5. Demonstrate the ability to set the planter for different populations.
6. Identify the ratio of seed placement to speed of the machine.
7. Demonstrate the procedures for leveling the drill frames.
8. Accurately diagnose and repair the seed metering system.
9. Utilize the color display to perform operational setup.
10. Demonstrate knowledge of operator, service, and set up manuals.
11. Demonstrate the proper loading of software into the color display for diagnostic purposes.
12. Accurately diagnose and repair the lift, fold, and marker hydraulic and electrical systems.
13. Demonstrate understanding of the electrical system, as well as CAN (controller area network) communication.
14. Demonstrate understanding of the hydraulic system. Including; valves, cylinders, and hose routing.

## INSTRUCTOR'S EXPECTATIONS OF STUDENTS IN CLASS

## TEXTBOOKS AND OTHER REQUIRED MATERIALS

### REFERENCES

### METHODS OF INSTRUCTION AND EVALUATION

## ATTENDANCE REQUIREMENTS

## COURSE OUTLINE