



MASTER COURSE OUTLINE

COURSE TITLE: Agricultural Equipment and Workplace Safety

Dept.: Agricultural Mechanics

CIP Code: 01.0205

CREDITS: 4

Total Contact Hrs Per Qtr.: 66

Distribution Design:

Prepared By: Brett Iksic

Course Num: 102

Intent Code:

Lecture Hrs: 22

DATE: 4/29/20

(Formerly:)

Program Code: 123

Lab Hrs: 44

Other Hrs:

COURSE DESCRIPTION (as it will appear in the catalog)

In this course, students will learn how to safely operate and maintain agricultural equipment. Students will understand the role that routine maintenance and thorough inspections play in operator and bystander safety. Students will practice skillful operator manual use to identify pertinent safety, operational, and maintenance information. Students will perform fluid, filter and lubrication services. Additionally, students will conduct minor belt, bearing, seal, gasket and universal joint repairs. Students will demonstrate their ability to safely operate agriculture equipment including obtaining a forklift operator certification.

PREREQUISITES: None.

TEXTBOOK GUIDELINES: Textbook determined by Agriculture Mechanics Faculty (Example: Rowtrac 350, 400, 450, 500, Steiger 350, 400, 450, 500, 550, 600 Item Number: 47421817).

STUDENT LEARNING OUTCOMES: *Upon successful completion of the course, students should be able to demonstrate the following knowledge or skills.*

1. Articulate the importance of routine maintenance and inspections.
2. Perform routine maintenance, inspections, and minor repairs.
3. Demonstrate effective navigation of an operator's manual to identify safety and maintenance information.
4. Demonstrate safe operation of agriculture equipment and forklifts.
5. Obtain a forklift operator certification.

INSTITUTIONAL OUTCOMES

3. Students will be able to demonstrate teamwork, ethics, safety awareness, and/or workplace specific skills related to agricultural mechanics.

COURSE CONTENT OUTLINE

1. Maintenance and safety
2. Operator manuals
 - Contents
 - Navigation
3. Routine maintenance and repairs
 - Visual inspections
 - Performing routine maintenance and repairs
4. Equipment safety and operation
 - Operator safety and operation instruction
 - Equipment operation

DEPARTMENTAL GUIDELINES (optional)

(insert here any requirements agreed upon by the department, such as required assignments or evaluations, clarifications for instructors, etc.)

DIVISION CHAIR APPROVAL

DATE