



## MASTER COURSE OUTLINE

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### COURSE TITLE

Agricultural Equipment Operation

### GENERAL COURSE INFORMATION

Dept.: AGM

Course Num: 103

(Formerly: )

CIP Code: 01.0205

Intent Code: 21

Program Code: 123

Credits: 3

Total Contact Hrs Per Qtr.: 55

Lecture Hrs: 11

Lab Hrs: 44

Other Hrs:

Distribution Designation: GE

### 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 perform fluid, filter and lubrication services. Additionally, students will conduct minor repairs as they pertain to routine maintenance such as, tightening/replacing belts, repairing minor leaks and universal joints. Students will be tasked with using operator manuals to locate, identify, and utilize safety, operational, and maintenance information for various purposes as they relate to agricultural mechanics. Students will demonstrate their ability to safely operate agriculture equipment including obtaining a forklift operator certification.

### PREREQUISITES

AGM 102

### TEXTBOOK GUIDELINES

Appropriate Agricultural Equipment and Safety textbook and resources as determined by AGM department (Example: Rowtrac 350, 400, 450, 500, Steiger 350, 400, 450, 500, 550, 600 Item Number: 47421817).

### COURSE LEARNING OUTCOMES

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

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

### INSTITUTIONAL OUTCOMES

IO3 **Human Relations/Workplace Skills:** 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
  - a. Contents
  - b. Navigation
3. Routine maintenance and repairs
  - a. Visual inspections
  - b. Performing routine maintenance and repairs
4. Practical equipment safety and operation
  - a. Operator safety and operation instruction
  - b. Equipment operation

**DEPARTMENTAL GUIDELINES**

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**DIVISION CHAIR APPROVAL**

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**DATE**