

# PROGRAM OF STUDY

## Agricultural Mechanics Certificate of Achievement

The Certificate for Agricultural Mechanics provides practical hands-on instruction in the areas of basic agricultural mechanics, welding/fabrication, small engine repair and maintenance, electricity, motors and controls, blue print reading, power transmission hydraulics and machine operation. This program includes lecture based classes and practical hands-on laboratory activities. This degree will benefit students who want to become agricultural mechanics instructors, maintenance mechanics, further their knowledge by transferring to a four-year college or university, or who want to work in the agricultural mechanics field.

At the completion of the program students will be able to:

- Perform basic maintenance and repairs to agricultural electrical, mechanical, and hydraulic machines/equipment.
- Demonstrate the ability to fabricate tools and small equipment.
- Successfully obtain employment in the agricultural mechanics field.
- Demonstrate the ability to safely and properly operate agricultural equipment.
- Demonstrate the ability to construct agricultural projects using wood, metal and various types of plumbing materials such as metal, PVC, PE and concrete pipe.
- Perform engine repairs to small a gas and diesel engines.

### Program requirements - 18-21 units

		<b>Units</b>
MAG40	Introduction to Agricultural Mechanics	3
MAG41	Introduction to Agricultural Welding	3
PLS11	Machinery Technology	3

### Select one option - 9-12 units

		<b>Units</b>
Ag Mechanics Option - 9 units		
MAG42	Small Gasoline and Diesel Engines	3
MAG44	Agriculture Welding Fabrication	3
MAG43	Electrical and Hydraulic Fundamentals	3
Ag Processing Mechanic Option - 12 units		
MFGT21	Blueprint Reading	2
MFGT23	Electricity	2
MFGT95	Motor Control	4
MFGT96	Power Transmission	4

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## **Total Units**

**18 - 21**

Effective Term: Fall 2018

PID 723