



**South Central College
Program Design**

CERT 3137 Advanced Agriculture Technician

Program Information

Instructional Level Certificate

Career Cluster Agriculture, Food & Natural Resources

Description

Designed for individuals to enter agribusiness careers related to the growing demand for installation, maintenance, troubleshooting, repair, reconfiguring, and/or replacement of mechatronic systems and components used in agricultural settings. This type of automation technology reduces input costs, decreases manual labor, improves safety and/or increase efficiency and accuracy within agribusiness.

Program Admission Dates (Fall and/or Spring)

Fall and Spring

Program Location (North Mankato and/or Faribault)

North Mankato

Program Student Learning Outcomes

- 1 Perform assembly, programming, maintenance, trouble shooting, repair, operation, and adjustment of mechatronic systems and components
- 2 Perform work using appropriate safety practices
- 3 Demonstrate effective participation in an agribusiness team

Program Configurations

Fall Start

Credits

Technical Course 18

Total Credits 18

Fall

Course #	Course Title	Credits	Function
----------	--------------	---------	----------

MEAG 1001	Mechatronics Applications in Agriculture	3	Technical Course
MECA 2120	Fluid Power 1	3	Technical Course
MEAG 1610	Ag Equipment Maintenance	3	Technical Course

Spring

Course #	Course Title	Credits	Function
MEAG 1700	Agricultural Industry Equipment	3	Technical Course
MECA 1222	Electricity - Devices and Circuits II	3	Technical Course
MECA 1223	Mechanical Systems 1	3	Technical Course

Program Course List

Number	Title	Credits	Pre/Corequisites
MEAG 1001	Mechatronics Applications in Agriculture	3	
MEAG 1610	Ag Equipment Maintenance	3	None
MEAG 1700	Agricultural Industry Equipment	3	None
MECA 1222	Electricity - Devices and Circuits II	3	MECA 1122: Electricity - Devices and Circuits I
MECA 1223	Mechanical Systems 1	3	
MECA 2120	Fluid Power 1	3	None