

This program will provide an introduction to the various fields of agricultural mechanics. The program will train students within the Agriculture CTE area. Specifically, students will work within the Agriculture, Food, & Natural Resources Career Cluster in jobs such as precision agriculture specialists, service technicians, equipment operators, equipment parts, and equipment sales & service.

### **Work and Employment**

Students will be prepared for jobs such as a Soil Conservationist, Agricultural Engineer, Custom Applicator, Equipment Operator, Health & Safety Specialist, General Laborer, Energy Service Technician, Service Technician, Maintenance Worker, Precision Agriculture Specialist, and equipment parts, sales & service.

### **Program Contacts at Sauk Valley Community College**

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- Academic Advising, 815-835-6354
- Kevin M. Larsen, Assistant Professor of Agriculture, 815-835-6279
- Jeff Johnson, Multicraft Instructor, 815-835-6572
- Scott Gillihan, Welding Instructor, 815-835-6278

## **Total Hours Required - 60 Hours**

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### **Major Field Requirements - 34 Hours**

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- AGR 109 - Soil Science (4 Semester Hours)
- AGR 116 - Animal Science (4 Semester Hours)
- AGR 130 - Intro to Agr Mechanics (4 Semester Hours)
- AGR 150 - Intro to Ag Bus Management (4 Semester Hours)
- AGR 201 - Plant Science (4 Semester Hours)
- ELT 120 - Fund of Elec w/ Applied Math (3 Semester Hours)
- ELT 259 - Industrial & Agric Wiring (3 Semester Hours)
- ELT 262 - Electrical Controls (3 Semester Hours)
- WLD 102 - Shielded Metal Arc Welding (3 Semester Hours)

**OR**

- WLD 103 - MIG Welding (3 Semester Hours)
- WLD 106 - Welding Fundamentals (2 Semester Hours)

### **General Education Requirements - 16 Hours**

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- Humanities/Fine Arts OR Social/Behavioral Science 3 Semester hour(s)
- BIO 103 - Introductory Biology (4 Semester Hours)

**OR**

CHE 103 - Introduction to Chemistry (4 Semester Hours)

**OR**

- PHY 175 - Introduction to Physics (4 Semester Hours)
- COM 131 - Intro to Oral Communication (3 Semester Hours)
- ENG 101 - Composition I (3 Semester Hours)
- MAT 106 - Applied Mathematics (3 Semester Hours)

### **Internship Requirements - 1 Hours**

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- IND 250 - Industrial Internship (1-3 Semester Hours)

### **SVCC Degree Requirement - 1 Hours**

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- FYE 101 - First Year Experience (1 Semester Hours)

### **Elective options - 8 Hours**

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\*\* Select a minimum of 8 hours from the list below:

- AGR 102 - Intro to Agricultural Econ (4 Semester Hours)
- AGR 142 - Prin of Ornamental Horticultur (3 Semester Hours)
- AGR 155 - Intro to AG Marketing & Stds (3 Semester Hours)
- AGR 160 - Agricultural Salesmanship (3 Semester Hours)
- AGR 199 - Ag Issues & Perceptions (3 Semester Hours)
- IND 118 - Mechanical Systems (3 Semester Hours)
- IND 218 - Fluid Power (3 Semester Hours)
- UAS 101 - Intro to Unmanned Aircraft Sys (3 Semester Hours)
- WLD 101 - Industrial MIG Welding (2 Semester Hours)
- WLD 102 - Shielded Metal Arc Welding (3 Semester Hours)
- WLD 103 - MIG Welding (3 Semester Hours)
- WLD 104 - TIG Welding (3 Semester Hours)
- WLD 140 - Robotic Welding (3 Semester Hours)

## **Suggested Program**

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### **First Semester - 13 Hours**

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- AGR 116 - Animal Science (4 Semester Hours)
- ELT 120 - Fund of Elec w/ Applied Math (3 Semester Hours)
- ENG 101 - Composition I (3 Semester Hours)
- FYE 101 - First Year Experience (1 Semester Hours)
- WLD 106 - Welding Fundamentals (2 Semester Hours)

### **Second Semester - 15 Hours**

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- Program Electives 2 Semester Hour(s)
- AGR 130 - Intro to Agr Mechanics (4 Semester Hours)
- COM 131 - Intro to Oral Communication (3 Semester Hours)
- ELT 259 - Industrial & Agric Wiring (3 Semester Hours)
- ELT 262 - Electrical Controls (3 Semester Hours)

### **Third Semester - 15 Hours**

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- Program Electives 3 Semester Hour(s)
- AGR 150 - Intro to Ag Bus Management (4 Semester Hours)
- AGR 201 - Plant Science (4 Semester Hours)
- BIO 103 - Introductory Biology (4 Semester Hours)

**OR**

CHE 103 - Introduction to Chemistry (4 Semester Hours)

**OR**

PHY 175 - Introduction to Physics (4 Semester Hours)

### **Fourth Semester - 17 Hours**

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- Program Electives 3 Semester Hour(s)
- Humanities/Fine Arts OR Social/Behavioral Science 3 Semester Hour(s)
- AGR 109 - Soil Science (4 Semester Hours)
- IND 250 - Industrial Internship (1-3 Semester Hours)

- MAT 106 - Applied Mathematics (3 Semester Hours)
- WLD 102 - Shielded Metal Arc Welding (3 Semester Hours)

**OR**

WLD 103 - MIG Welding (3 Semester Hours)