

The Certificate program is intended to provide knowledge and additional training to a student already in the field of manufacturing, as well as a new student to the field who would like to increase his/her knowledge on topics such as machining, tool & die, and CNC operations.

### **Work and Employment**

The program will allow a student to either gain entry level employment into manufacturing fields or have a student already involved in manufacturing increase his/her skill set for greater employment flexibility.

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

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- Academic Advising, 815-835-6354

## **Total Hours Required - 24 Hours**

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### **Major Field Requirements - 24 Hours**

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- ELT 120 - Fund of Elec w/ Applied Math (3 Semester Hours)
- OR**
- MAT 106 - Applied Mathematics (3 Semester Hours)
  - IND 108 - Introduction to CAD (2 Semester Hours)
  - IND 118 - Mechanical Systems (3 Semester Hours)
  - IND 125 - Machining & Manufacturing Proc (3 Semester Hours)
  - IND 131 - OSHA Standards (1 Semester Hours)
  - IND 203 - Adv Machining & Manufac Proc (3 Semester Hours)
  - IND 207 - Computer Numerical Cont Prog I (3 Semester Hours)
  - IND 208 - Comp Numerical Control Prog II (3 Semester Hours)
  - IND 250 - Industrial Internship (1-3 Semester Hours)
  - WLD 106 - Welding Fundamentals (2 Semester Hours)

## **Suggested Program**

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

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- IND 108 - Introduction to CAD (2 Semester Hours)
- IND 118 - Mechanical Systems (3 Semester Hours)
- IND 125 - Machining & Manufacturing Proc (3 Semester Hours)
- IND 203 - Adv Machining & Manufac Proc (3 Semester Hours)
- WLD 106 - Welding Fundamentals (2 Semester Hours)

### **Second Semester - 11 Hours**

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- MAT 106 - Applied Mathematics (3 Semester Hours)
- OR**
- ELT 120 - Fund of Elec w/ Applied Math (3 Semester Hours)
  - IND 131 - OSHA Standards (1 Semester Hours)
  - IND 207 - Computer Numerical Cont Prog I (3 Semester Hours)
  - IND 208 - Comp Numerical Control Prog II (3 Semester Hours)
  - IND 250 - Industrial Internship (1-3 Semester Hours)