

(H73) Certificate

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

Academic Advising, 815/835-6354;

Major Field Requirements

- ELT 120 - Fundamentals of Electricity with Applied Mathematics 3 Semester hour(s)
- OR
- MAT 106 - Applied Mathematics 3 Semester hour(s)
- IND 108 - Introduction to CAD 2 Semester hour(s)
- IND 118 - Mechanical Systems 3 Semester hour(s)
- IND 125 - Machining and Manufacturing Processes 3 Semester hour(s)
- IND 131 - OSHA Standards 1 Semester hour(s)
- IND 203 - Advanced Machining and Manufacturing Processes 3 Semester hour(s)
- IND 207 - Computer Numerical Control Programming I 3 Semester hour(s)
- IND 208 - Computer Numerical Control Programming II 3 Semester hour(s)
- IND 250 (1) - Industrial Internship 1 Semester hour(s)
- WLD 106 - Welding Fundamentals 2 Semester hour(s)

Total Hours Required for Certificate: 24

Suggested Program

First Semester - Sem/Hrs: 13

- IND 108 - Introduction to CAD 2 Semester hour(s)
- IND 118 - Mechanical Systems 3 Semester hour(s)
- IND 125 - Machining and Manufacturing Processes 3 Semester hour(s)
- IND 203 - Advanced Machining and Manufacturing Processes 3 Semester hour(s)
- WLD 106 - Welding Fundamentals 2 Semester hour(s)

Second Semester - Sem/Hrs: 11

- MAT 106 - Applied Mathematics 3 Semester hour(s)
- OR
- ELT 120 - Fundamentals of Electricity with Applied Mathematics 3 Semester hour(s)
- IND 131 - OSHA Standards 1 Semester hour(s)
- IND 207 - Computer Numerical Control Programming I 3 Semester hour(s)
- IND 208 - Computer Numerical Control Programming II 3 Semester hour(s)
- IND 250 (1) - Industrial Internship 1 Semester hour(s)

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