

## INACTIVE PROGRAM

### **(H68) Certificate**

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This program is intended to prepare CAD operators for immediate employment by providing the intermediate computer-aided drafting skills and comprehensive knowledge necessary to seek more advanced employment in design-related jobs such as CAD Technicians. In addition to more extensive hands-on CAD training, a student will become familiar with various foundation courses in related manufacturing processes and advanced drafting techniques that will be required of a CAD drafter.

### **Work and Employment**

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Computer-aided design systems can be used for the production of draft documents in a wide variety of fields. These fields can range from manufacturing to civil engineering, to structural engineering and even electrical and electronics engineering. All of these fields require that the worker be skilled, precise, efficient, knowledgeable and timely. All of these factors are covered in classroom lectures as well as extensive laboratory exercises.

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

Counseling Office, 815/835-6208;

**In addition to the 18 credit hours of courses taken for completion of the Basic Computer-Aided Drafting Technician Certificate, the students must complete the following courses.**

Major Field Requirements - Sem/Hrs: 10

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- IND 125 - Machining and Manufacturing Processes 4 Semester hour(s)
- QLT 106 - Metrology 2 Semester hour(s)
- PHY 175 - Introduction to Physics 4 Semester hour(s)

Additional Requirements - Sem/Hrs: 10

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Students must take at least 10 credit hours of classes from the following list:

- DFT 212 - Electronic and Electrical Drafting 3 Semester hour(s)
- DFT 214 - Plumbing Process Drafting 3 Semester hour(s)
- DFT 217 - Civil Engineering Drafting 3 Semester hour(s)
- DFT 218 - Structural Engineering Drafting 3 Semester hour(s)
- DFT 242 - Architectural Drafting 3 Semester hour(s)
- MET 205 - Die Design 2 Semester hour(s)
- MET 206 - Jig and Fixture Design 2 Semester hour(s)
- MET 210 - Mechanisms 3 Semester hour(s)
- MET 212 - Strength of Materials 4 Semester hour(s)
- IND 214 - Industrial Hydraulics 2 Semester hour(s)
- IND 216 - Industrial Pneumatics 2 Semester hour(s)
- MET 242 - Machine Design 3 Semester hour(s)

Previous credits for Basic CAD Certificate: 18

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Total Hours Required for Certificate: 38

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