



## Computerized Machining Technology —AAS

The Computerized Machining Technology program will provide the student with the knowledge for designing, prototyping, and the manufacturing of machined parts. You will gain valuable skills in a fascinating trade. Computerized Machining Technology training offers the chance to gain job-ready abilities for an engaging career that can provide a real sense of pride and accomplishment. By becoming skilled at working with computer numerical control (CNC) machine technologies, you could soon be making tools, dies, molds, and other objects using 3-D printing, high-tech lathes or milling equipment. It's an opportunity to learn one of today's most appealing and dependable trades. SolidWorks and MasterCam software will be used in designing parts, and machines such as lathes and mills will be used in their manufacture. The instruction, course of study, facilities, and equipment of this institution have been evaluated and accredited by the National Institute for Metalworking Skills (NIMS) and demonstrate the ability to produce skilled, work-ready individuals that fulfill industry's 21<sup>st</sup> Century workforce needs.

### ASSOCIATE OF APPLIED SCIENCE COMPUTERIZED MACHINING TECHNOLOGY

**Total Program = 60 Credit Hours**

The fourth digit in the course number indicates the number of credit hours.

#### UNIVERSITY REQUIREMENT—1 OR 3 HOURS

##### University—1 HOUR or 3 HOURS

- UNIV 1001 Principles of Academic Success I
- UNIV 1003 Principles of Academic Success III

*The 3-hour credit course is required for students who must take at least one remedial course. Students who are not required to take a remedial course may take the 3-hour credit course. In both situations, the courses (1-hour or 3-hour) count toward electives.*

##### Department

- University
- University

#### GENERAL EDUCATION CORE—12 HOURS

- ENG 1003 Freshman English I
- ENG 1013 Freshman English II
- MATH 1013 Technical Mathematics (or higher)

*Choose one of the following courses.*

- PSY 2013 Introduction to Psychology **or**
- SOC 2213 Principles of Sociology **or**
- HIST 2763 The United States to 1876 **or**
- HIST 2773 The United States since 1876

##### Department

- English
- English
- Mathematics
- Psychology
- Sociology
- History
- History

#### COMPUTERIZED MACHINING TECHNOLOGY CORE—41 HOURS

- CMT 1013 CAD/CAM I
- CMT 1103 Prototyping I
- CMT 1203 Basic Machining
- CMT 1023 CAD/CAM II
- CMT 2103 Prototyping II

##### Department

- Comp Machining Tech
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CMT 2703	Advanced Machining	Comp Machining Tech
CMT 1303	CNC I	Comp Machining Tech
CMT 1313	CNC II	Comp Machining Tech
CMT 2113	Industrial Environment	Comp Machining Tech
CMT 2123	Concept to Production	Comp Machining Tech
CMT 2313	CNC III	Comp Machining Tech
CMT 2022	Metrology I	Comp Machining Tech
CMT 2013	CAD/CAM III	Comp Machining Tech
CMT 2413	Manufacturing Materials and Processes	Comp Machining Tech

**TECHNICAL RELATED ELECTIVES—7 HOURS**

*Choose 7 hours of technical electives in consultation with your advisor.*

Suggestions include courses from the following areas: CADD, CTE, Industrial Technology, Machining, and Welding.





**Computerized Machining Technology—TC**

**TECHNICAL CERTIFICATE  
COMPUTERIZED MACHINING TECHNOLOGY**

**Total Program = 32 Credit Hours**

The fourth digit in the course number indicates the number of credit hours.

**Requirements—32 HOURS**

CMT	1013	CAD/CAM I
CMT	1103	Prototyping I
CMT	1023	CAD/CAM II
CMT	1203	Basic Machining
CMT	1303	CNC I
CMT	2103	Prototyping II
CMT	2022	Metrology I
CMT	2703	Advanced Machining
CMT	1313	CNC II
MATH	1013	Technical Mathematics (or higher)
ENG	1003	Freshman English I <b>or</b>
COM	1003	Career Communications

**Department**

Comp Machining Tech
Comp Machining Tech
Comp Machining Tech
Comp Machining Tech
Comp Machining Tech
Comp Machining Tech
Comp Machining Tech
Comp Machining Tech
Comp Machining Tech
Mathematics
English
Career Communications





## Computerized Machining Technology—CP

### CERTIFICATE OF PROFICIENCY COMPUTERIZED MACHINING TECHNOLOGY

**Total Program = 12 Credit Hours**

The fourth digit in the course number indicates the number of credit hours.

#### Requirements—12 HOURS

CMT	1013	CAD/CAM I
CMT	1103	Prototyping I
CMT	1203	Basic Machining
CMT	1303	CNC I

#### Department

Comp Machining Tech
Comp Machining Tech
Comp Machining Tech
Comp Machining Tech