

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 21st Century workforce needs.

ASSOCIATE OF APPLIED SCIENCE COMPUTERIZED MACHINING TECHNOLOGY

Total Program = 60 Credit Hours

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

UNIVERSITY REQUIREMENT—1 OR 3 HOURS

University—1 HOUR or 3 HOURS

UNIV 10001 Principles of Academic Success I

UNIV 10003 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.

GENERAL EDUCATION CORE—12 HOURS

ENGL 10103 Freshman English I

ENGL 10203 Freshman English II **or**

ENGL 20203 Technical Writing & Communication

MATH 10103 Technical Mathematics (or higher)

Choose one of the following courses:

PSYC 11003 Introduction to Psychology **or**

SOCI 10103 Principles of Sociology **or**

HIST 21103 The United States to 1876 **or**

HIST 21203 The United States since 1876

COMPUTERIZED MACHINING TECHNOLOGY CORE—41 HOURS

MSTE 10103 CAD/CAM I

MSTE 11003 Prototyping I

MSTE 12003 Basic Machining

MSTE 25343 CAD/CAM II

MSTE 21003 Prototyping II

MSTE	27003	Advanced Machining
MSTE	13003	CNC I
MSTE	13103	CNC II
MSTE	21103	Industrial Environment
MSTE	21203	Concept to Production
MSTE	23103	CNC III
MSTE	20202	Metrology I
MSTE	20103	CAD/CAM III
MSTE	24103	Manufacturing Materials and Processes

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 fifth digit in the course number indicates the number of credit hours.

Requirements—32 HOURS

MSTE	10103	CAD/CAM I
MSTE	11003	Prototyping I
MSTE	25343	CAD/CAM II
MSTE	12003	Basic Machining
MSTE	13003	CNC I
MSTE	21003	Prototyping II
MSTE	20202	Metrology
MSTE	27003	Advanced Machining
MSTE	13103	CNC II
MATH	10103	Technical Mathematics (or higher)
ENGL	10103	Freshman English I or
COMM	12053	Career Communications

Computerized Machining Technology—CP

CERTIFICATE OF PROFICIENCY COMPUTERIZED MACHINING TECHNOLOGY

Total Program = 12 Credit Hours

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

Requirements—12 HOURS

MSTE	10103	CAD/CAM I
MSTE	11003	Prototyping I

MSTE	12003	Basic Machining
MSTE	13003	CNC I