



CNC Machine Technology C.A.

Curriculum Code: 1798

Effective: Fall 2020 – Summer 2025

Description

This certificate is designed for a person interested in developing or advancing his/her skill set in the machinist or tool & die trade. Students receive hands-on instruction in manual machining, advanced computer numerical control (CNC) machining/programming, advanced computer aided machining (CAM), basics of geometric dimensioning and tolerancing, blueprint reading, and manufacturing principles. Employment possibilities include entry-level positions in manufacturing companies. Technical math, blueprint reading, and metallurgy are just some of the skills and knowledge that are necessary for this type of work.

Additional Information

All course work will apply to the Associate in Applied Science Degree in Manufacturing Engineering Technology.

Contact Information

Contact the Trades Technology Program, West Campus Building, Room M103, telephone number 517-483-5338, Student Services West Campus, West Campus Building, Room M106, telephone number 517-267-5452.

Program of Study Required Courses

Course Code	Course Title	Credit / Billing Hours
METD 100	Basic Mechanical Drafting	3 / 4
METD 130	Geometric Dimension/Tolerance	4 / 6
METM 108	Machine Tool Operations	4 / 6
METM 112	Introduction to CNC Machining	4 / 6
METM 150	Advanced CNC Machining	4 / 6
METM 190	Metallurgy and Heat Treatment	4 / 6
METM 195	Quality/Metrology/Inspection	2 / 3
METM 220	Basic Mastercam	4 / 6
METM 221	Advanced Mastercam	4 / 6
METS 102	Industrial/Construction Safety	2 / 3

Total Credit Hours

35 credits / 52 billing hours

Recommended Course Sequence

Semester I	Semester II
METD 100 METM 108 METM 190 METS 102	METD 130 METM 112 METM 220

Semester III
METM 150 METM 195 METM 221