



MACHINE TOOL TECHNOLOGY

- Associate of Applied Science
- College Certificate

About The Program

This program is designed for students who will be employed in metal manufacturing related occupations. Program content will cover orientation to manufacturing, industrial blueprint reading, basic math, measurement, bench work and material science. Industrial safety will be emphasized. Operation of lathes, mills, saws, drill presses and other machine tools will be included.

Career Potential

- Commercial and service industry manufacturing
- Engine, turbine and power transmission equipment manufacturing
- Other general purpose machinery manufacturing
- Industrial machinery manufacturing

Admission Requirements

Students are admitted to the program each semester. Students must have Program approval, a completed application, and other required information submitted by the due date. If there are openings after the application deadline, remaining openings will be filled on a "first-come" basis.

Individuals interested in the Machine Tool Technology program are required to fulfill the following requirements:

- College Admission Requirements
- Declare their intent to enter the Machine Tool Technology program on the WCCCD Application for Admission or change their intent within the Admission Office.
- Course placement requirements based on COMPASS test results
- Students must complete WCCCD Program Application during the semester they are enrolled in MAN 100, Shop Equipment & Tools and submit to the Campus Academic Officer.
- Students must complete all core course work with a grade of "C" or better to meet graduation requirements.

Associate of Applied Science Degree Requirements

SEMESTER I

DRT 101	Blueprint Reading	3
ENG 119	English I	3
MAN 100	Shop Equipment & Tools	3
NC 111	Numerical Control Concepts	3
TOTAL CREDITS		12

SEMESTER II

DRT 102	Fundamentals of Mechanical Drawing	4
ENG 134	Technical Communications	3
MAN 110	Manufacturing Processes I	3
NC 222	CNC Machining & Programming I	3
TOTAL CREDITS		13

SEMESTER III

DRT 115	Geometric Dimensioning Tolerancing	2
MAN 210	Nontraditional Manufacturing	3
MAT 121	Technical Mathematics I	3
NC 230	CNC Machining Center Operations and Graphics I	3
PS 101	American Government	3
TOTAL CREDITS		14

SEMESTER IV

CAD 101	Fundamentals of Computer Aided Drafting	4
MAT 122	Technical Mathematics II	3
MHT 260	Machine Shop I	4
Elective		*3
TOTAL CREDITS		14

SEMESTER V

Elective		*3
MHT 270	Machine Shop II	4
Natural Science Elective with a Lab		4
LS 204	Occupational Safety & Health	3
TOTAL CREDITS		14

PROGRAM TOTAL CREDITS 67

* Program totals may not include prerequisite work.

* DRT, MHT, NC recommended as electives.

College Certificate Requirements

SEMESTER I

DRT 101	Blueprint Reading	3
ENG 119	English I	3
MAN 100	Shop Equipment & Tools	3
CAD 101	Fundamentals of Computer Aided Drafting	4
TOTAL CREDITS		13

SEMESTER II

DRT 102	Fundamentals of Mechanical Drawing	4
MAN 110	Manufacturing Processes I	3
MAT 121	Technical Mathematics I	3
NC 111	Numerical Control Concepts	3
TOTAL CREDITS		13

SEMESTER III

MAT 122	Technical Mathematics II	3
NC 222	CNC Machining & Programming I	3
TOTAL CREDITS		6

CERTIFICATE TOTAL CREDITS 32

* Certificate totals may not include prerequisite work.

District Office

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Detroit, MI 48226

General Information Number:
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Career Program Hotline:
1-800-300-2118

Information Website:
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E-mail:
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