



# Precision Machining Technology

(MACHINE TOOL TECHNOLOGY/MACHINIST CIP CODE 48.0501)

## Program Description

The Precision Machining industry is a diverse, high-tech, and fast-paced industry made possible by highly skilled individuals and machinery. If you are mechanically inclined, like to work hands-on, and enjoy troubleshooting and problem-solving, this program is for you.

The program covers precision instruments and measurement, equipment setups and operations of machining processes. Lab projects and activities provide students the opportunity to apply and build upon many skills learned. The program is located offsite on the Monroe County Community College Campus through dual enrollment with a state-approved CTE Program through the ISD.

### Opportunities

- Use computers to design parts, program and operate high-tech computer-controlled manufacturing equipment
- Discover how all kinds of things are made from design to production
- Explore careers in advanced manufacturing
- Learn engineering principles and design software

### Industry Credentials

- FANUC America's CNC Basic Operation, Programming and Setup

### Registration

Students enroll through High School Counselor and must meet the following Requirements:

- Seniors only
- Minimum 2.0 GPA
- Good Attendance
- Have reliable transportation
- Expressed interest in Manufacturing, Professional Trades or STEM Career Pathways
- Ready for college level work evidenced by
  - Counselor letter of recommendation
  - Teacher letter of recommendation

### Denise Teague

Monroe County CTE Director

734-322-2720

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### Troy Elliott, Instructor

Manufacturing Technology

CNC Machining and CAD/CAM

734-384-4114

## MCCC Course Sequence

### Dual Credit

HIGH SCHOOL CTE Credit and 12 College Credits Possible

#### Fall 2023: Semester One

- MDTC 109 Mechanical Blueprint Reading (2 CHs)
- MECH 103 Machining Basics and CNC (4 CHs)

#### Winter 2024

- MECH 104 CNC II (3 CHs)
- MECH 201 CAD/CAM Milling I (3CHs)

#### Course Information

- Monday -Thursday 12:30-2:30 at MCCC
- Friday Online Modules
- Program follows the college semester timeline



MONROE COUNTY ISD AND MONROE COUNTY COMMUNITY COLLEGE

CTE PARTNERSHIP FOR ALL MONROE COUNTY DISTRICTS

## Parent/Student Open House

You are invited to come and meet the instructor, tour the classroom and lab, and ask questions.

Wednesday, April 19, 2023 | 3:00 – 7:00 PM

Monroe County Community College

Career Technology Center – “T” building | Room T-175

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