

Advanced Manufacturing

Career Roadmap

MCCC Career Major

Required Courses

Manufacturing Operations
Machine Operations
CNC Programming and Machining
Industrial Maintenance

College Credit

Students have the opportunity to earn college credit in this program.

Goals

Earn High School Diploma
Earn Industry Certifications

MCCC Industry Certifications*

Mastercam Lathe Turning CNC Mastercam Axis Milling CNC
Haas Basic CNC Lathe Operator
Haas CNC Basic Mill Operator
OSHA 10-HR General Industry CPR and First Aid
Pre-Apprenticeship [ApprenticeOhio]

Job Placement | Internships

Mold Operator, Apprentice Machinist,
Material Inspector, Machinery Mechanic

Technical Careers

Associate Degree

CNC Machining & Composite Mfg.,
Integrated Systems Engineering
Technology, Manufacturing / Industrial
Engineering Tech., Mechanical
Engineering Technology, Operations
Engineering Technology, Millwrighting

Advanced Certifications

Automation Maintenance Technician
Computer Aided Drafting
Computer Integrated Manufacturing
Machine Tools Operation
Mechatronics
Quality Control

Jobs with Work Experience & Associate Degree

Production Technician
Tool & Die Maker
Machinist
Industrial Engineering Technician
Engineering Technician
CNC Machine Shop Supervisor

Professional Careers

Bachelor Degree*

Advanced Manufacturing Engineering
Technology
Mechanical Engineering Technology
Mechanical Engineering
Automated Manufacturing Engineering
Technology

Master Degree*

Mechanical Engineering
Industrial Engineering

Doctoral Degree*

Engineering:
Thermal-Fluid Sciences,
Mechanics, Materials, Controls and
Manufacturing

Extensive Work Experience*

Manufacturing Engineer
Materials Engineer
Industrial Production Manager
Industrial Engineer
Mechanical Engineer
Engineering Department Supervisor

*Examples only. Degrees and work experience options are extensive.

**Students who meet certification criteria will have the opportunity to test in their CT program.*

