

# Engineering Technologies & Design

## Career Roadmap

### MCCC Career Major

#### Required Courses

Engineering Design  
Computer Integrated Manufacturing  
Plan Reading  
Engineering Principles  
Engineering Capstone

#### College Credit

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

#### Goals

Earn High School Diploma  
Earn Industry Certifications

#### MCCC Industry Certifications\*

Autodesk Inventor (Mechanical Design)  
Autodesk Revit (Architectural Design)  
Auto CAD (Design and Drafting)  
KUKA Robot Programming  
OSHA 10-HR General Industry  
CPR First Aid  
Pre-Apprenticeship (ApprenticeOhio)

#### Job Placement | Internships

Early Placement and Summer Internship opportunities are available in this program.

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

### Technical Careers

#### Associate Degree

Adv. Manufacturing Engineering Technology, Operations Engineering Technology, Electrical / Electronic Engineering Technology, Engineering Technology Programs, Engineering Management, Bio-Medical Engineering Technology, Surveying

#### Advanced Certifications

3D Digital Design & Manufacturing Technology  
Automated Maintenance Technician  
Computer-Integrated Manufacturing  
Electronic Engineering Technician  
Mechatronics and Quality Control

#### Jobs with Work Experience & Associate Degree

Industrial Maintenance Technician  
Machine Operator such as Press, Tool Room, Utility, EDM, CAD Operator / Drafter, CNC Operator, Inventor Designer, Maintenance Manager, Quality Technician, Apprenticeship

### Professional Careers

#### Bachelor Degree\*

Aerospace Systems Engineering, Biomedical Engineering, Chemical Engineering, Civil Engineering, Computer Engineering, Corrosion Engineering, Electrical and Mechanical Engineering, Land Surveying

#### Master Degree\*

Engineering Management, Electrical Engineering, Civil and Mechanical Engineering, Engineering in Project Management, Business Administration

#### Doctoral Degree\*

Project Management: Business, Doctor of Education: Engineering, Business Administration: Management of Engineering & Technology, Strategy & Innovation, Doctorate of Systems Engineering & Applied Sciences

#### Extensive Work Experience\*

Senior Project Engineer, Mechanical Design Engineer, Programmer & Engineering Process Developer, Civil Structural Engineer, Environmental Engineer Project Manager

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

