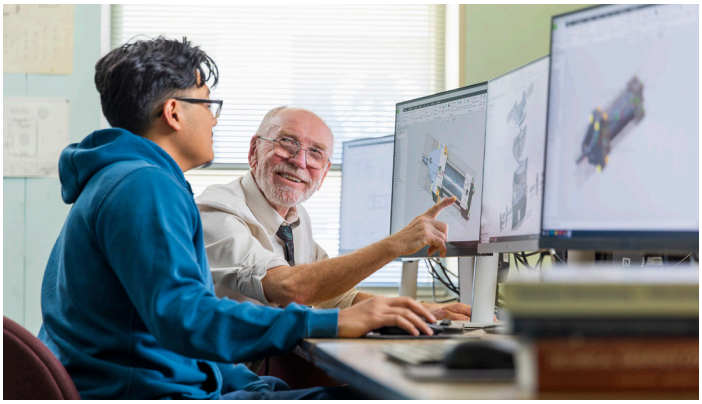
STEM Academic & Career Pathway

# Mechanical and Computer Drafting

PROGRAM CODE: **31-421-2**

**TD**

Technical Diploma



| COURSES | | CREDITS |
|---|---|---|
| **CIVIL-102** | Introduction to AutoCAD | **2** |
| **CIVIL-105** | Computer Applications | **2** |
| **MCDESG-102** | Technical Drafting 1 ‡ | **3** |
| **MCDESG-162** | Engineering Materials | **2** |
| **MATH-115** | College Technical Mathematics 1 ‡ | **5** |
| **MCDESG-104** | Technical Drafting 2 With CAD ‡ | **3** |
| **MCDESG-114** | SolidWorks 1 | **2** |
| **MCDESG-106** | Advanced Engineering Graphics ‡ | **3** |
| **MCDESG-124** | SolidWorks 2 ‡ | **2** |
| **MCDESG-163** | Machining Processes ‡ | **2** |

CREDITS
Total credits needed to complete this diploma **26**

‡ Prerequisite required.

Program curriculum requirements are subject to change.

Current MATC students should consult their Academic Program Plan for specific curriculum requirements.

MATC courses are offered in person, entirely online or partially online. Check each course's delivery options in Self-Service at **selfservice.matc.edu**.

**Location:** Downtown Milwaukee Campus

**Start Date:** August

**Admission Requirement:** High school diploma or equivalent

**Academic Preparedness Requirement:** One year of high school-level algebra or equivalent

**Financial Aid Eligible:** Yes. Use code 003866 at fafsa.gov.

## Program Description

This program prepares you to be a detail drafter in the mechanical drafting field. For a new product to become reality, it must exist in the mind of the engineer, designer or drafter; then it is the detail drafter, working from design layouts, sketches and handbooks, who creates working drawings that aid in manufacturing the product.

## Career Outlook

The employment outlook is favorable for mechanical drafters with current training in computer-aided design and drafting (CADD) systems.

## Program Learning Outcomes

- Prepare detail and assembly drawings for documentation of mechanical components and products.
- Create CAD geometry, parts and assemblies.
- Design mechanical components and products.
- Select purchased parts.

**Complete Program Details**

**QUESTIONS?** 414-297-6319 or stempathway@matc.edu