STEM Academic & Career Pathway

Mechanical Design Technology

PROGRAM CODE: 10-606-1



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

Get involved in the engineering design process — design and analyze mechanical components and assemblies. Create 3D solid models and 2D detailed drawings for parts or assemblies of mechanical and electromechanical systems using the latest computer-aided design/ drafting (CADD) systems.

Career Outlook

The employment outlook is favorable for mechanical drafters/ designers having current training involving 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.
- Analyze mechanical engineering problems.
- Select purchased parts.

COURSES CREDITS Introduction to AutoCAD ^2 CIVIL-102 CIVIL-105 Computer Applications ^.....2 College Technical Mathematics 1 ‡ ^5 **MATH-115** (or) MATH-201 College Algebra (4 credits) ‡ **MATH-116** College Technical Mathematics 2 ‡ 4 (or) MATH-202 Trigonometry (3 credits) MCDESG-114 SolidWorks 1 ^.....2 SOCSCI-197 Contemporary American Society 3 (or) Any 200-level SOCSCI or HIST course Written Communication ‡......3 ENG-195 (or) ENG-201 English 1 ‡ MCDESG-106 MCDESG-124 SolidWorks 2 ‡ ^.....2 MCDESG-130 Strength of Materials ‡......3 **ELECTIVES** (Two credits)2 ENG-196 Oral/Interpersonal Communication ‡......3 (or) Any 200-level ENG or SPEECH course MCDESG-135 PTC Creo (Pro/E) 12 **PSYCH-199** (or) Any 200-level PSYCH course

CREDITS

Total credits needed to complete this degree

64

‡ Prerequisite required.

^ Counts toward earning the Mechanical and Computer Drafting technical diploma.

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**.



Complete Program Details QUESTIONS? 414-297-6319 or stempathway@matc.edu

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