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.



Complete Program Details

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

COURSES		CREDITS
CIVIL-102	Introduction to AutoCAD ^	2
CIVIL-105	Computer Applications ^	2
MATH-115	College Technical Mathematics 1 \ddagger ^(or) MATH-201 College Algebra (4 credits) \ddagger	5
MCDESG-102	Technical Drafting 1 ‡ ^	3
MCDESG-162	Engineering Materials ^	2
MATH-116	College Technical Mathematics 2 ‡ (or) MATH-202 Trigonometry (3 credits)	4
MCDESG-104	Technical Drafting 2 With CAD ‡ ^	3
MCDESG-114	SolidWorks 1 ^	2
MCDESG-160	Statics ‡	3
SOCSCI-197	Contemporary American Society(or) Any 200-level SOCSCI or HIST course	3
ENG-195	Written Communication ‡ (or) ENG-201 English 1 ‡	3
MCDESG-106	Advanced Engineering Graphics ‡ ^	3
MCDESG-118	Kinematics ‡	3
MCDESG-124	SolidWorks 2 ‡ ^	2
MCDESG-130	Strength of Materials ‡	3
MCDESG-163	Machining Processes ‡ ^	2
ELECTIVES	(Two credits)	2
ENG-196	Oral/Interpersonal Communication ‡(or) Any 200-level ENG or SPEECH course	3
MCDESG-112	Tool Design ‡	3
MCDESG-116	Design Elements ‡	3
MCDESG-125	Design Problems ‡	3
MCDESG-135	PTC Creo (Pro/E) 1	2
PSYCH-199	Psychology of Human Relations(or) Any 200-level PSYCH course	3

CREDITS

Total credits needed to complete this degree

64

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.



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[‡] Prerequisite required.

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