



Bachelor of Science in Mechanical Engineering Technology (MET)

Expanded opportunities for technical leadership

A Bachelor of Science in Mechanical Engineering Technology (MET) degree opens the door to many technical roles in industry. Those with MET degrees are hands-on people equally at home in the lab or shop floor. Technical and business skills acquired in the program make them adaptable problem-solvers.

Our graduates can be found in:

- plant operations and management
- quality assurance
- product and manufacturing systems design
- testing and evaluation
- public utility – systems management
- fluid power systems testing and design
- plastics manufacturing and design
- graduate programs

Transfer Program

MSOE's MET program is a transfer program for those with associate degrees in mechanical design and related fields. MSOE has transfer agreements with many of Wisconsin's two-year technical colleges. Prospective students with no prior engineering experience or technically related associate or bachelor degrees should strongly consider first enrolling in a mechanical design technician degree program at one of these institutions.

Students typically enroll in two classes a quarter. Classes shown in the curriculum

track are paired so they can be scheduled on the same two nights each week of the term. The curriculum is designed so graduates with associate degree in mechanical design can expect to graduate in approximately five to six years if scheduling two courses (6–7 credits) per quarter.

Meaningful Curriculum

The curriculum introduces technical courses at an early stage. Mathematics and science courses are integrated into the curriculum as they are applied to the technical courses, and general studies courses are spread throughout the curriculum. With this arrangement, part-time students experience a continuous blend of technical and support classes throughout the program.

The MSOE Advantage

MSOE is known for its quality education and an uncompromising insistence on excellence. Class sizes are small, which encourages individual interaction and networking. Professors are in the classroom and lab – no teaching assistants – and accessible to students.

Program Director:

Dr. Dragomir Marinkovich;
marinkovich@msoe.edu

Bachelor of Science in Mechanical Engineering Technology Curriculum

Part-time Track

	Credits	Fall	Winter	Spring
Materials and Processes	3	X		
College Physics II	4	X		
Transfer Orientation Seminar	0	X		
Dimensioning and Tolerancing	3		X	
Basic Fluid Power	3		X	
Free Elective	3		X	
Machining Processes	3			X
Social Science Elective	3			X
Statics	3	X		
Social Science Elective	3	X		
Strength of Materials	4		X	
Interpersonal Communications	3		X	
Mechanical Components	4			X
Economics Elective	3			X
Analytic Geometry and Calculus I	4	X		
Mechanisms	4	X		
Calculus II	4		X	
Technical Composition	3		X	
Calculus III	4			X
Applied Chemistry	4			X
Probability and Statistics	3	X		
Contemporary Issues in the Humanities	3	X		
Quality in Manufacturing	3		X	
Electric Circuits	4		X	
Speech	3			X
Electronics	3			X
Computer Tools	3	X		
Engineering Economy	3	X		
Solid Modeling	4		X	
Humanities Elective	3		X	
Finite Element Analysis	4			X
Technical Elective	3			X
Fluid Mechanics	3	X		
Electromechanical Instrumentation	3	X		
Thermodynamics	4		X	
Dynamics	3		X	
Heat Transfer	4			X
Advanced Mechanics	3			X
Electric Motors	3	X		
Ethics for Professional Managers and Engineers	3	X		
Industrial Materials	4		X	
Organizational Psychology	3		X	
Project Management	3			X
Feedback Control Systems	4			X
Hardware in Manufacturing	4	X		
Business Elective	3	X		
Advanced Fluid Power	4		X	
Technical Elective	3		X	
Capstone Project	3			X
Professional Guidance	1			X
Humanities Elective	3			X

There are 27 credits of elective subjects in the MET program which must be taken as follows:

- 12 credits from humanities and social sciences (HU/SS), of which 6 must be in the humanities area (HU) and 6 in the social sciences area (SS)
- 3 credits of free electives
- 3 credits of economics electives
- 3 credits of business electives
- 6 credits of technical electives