

AS Mechanical Engineering Technology

The Mechanical Engineering Technology (MET) program offers a wide variety of opportunities to students interested in pursuing a career in the mechanical engineering technology field. The mechanical engineering technology (MET) program is designed as a "two-plus-two" program. Students may choose to complete two years of study and earn an Associate of Science (AS) Mechanical Engineering Technology (MET) degree, or they may continue on their formal education to earn the Bachelor of Science (BS) Mechanical Engineering Technology degree.

The MET program includes both classroom and laboratory experiences. The curriculum stresses the application of established engineering and computer knowledge and methods to the solution of practical problems. Included in the curriculum is the study of sciences and mathematics supporting technology as well as methods, processes, skills, and materials used in technology.

Graduates of the MET Associate degree program work as engineering technicians. The industry-oriented two-year degree allows them to quickly find employment in their chosen field. Because of the practical nature of the program, graduates immediately become productive in careers involving design, drafting, testing, and production of industrial machines and consumer products.

Program Objectives

Graduates of the Mechanical Engineering Technology program at Tech will, in their first several years of employment, have the ability to:

- Work competently in technical and professional careers related to the field of Mechanical Engineering Technology
- Communicate effectively in a professional environment
- Continue growth in professional knowledge
- Achieve recognition and/or compensation consistent with their educational achievements.

Student Outcomes

Associate of Science in Mechanical Engineering Technology

Graduates of the MET program will possess the following skills or abilities at graduation.

Learning Outcome 1: be able to apply principles of mathematics and applied science, to perform technical calculations and solve technical problems of the types commonly encountered in mechanical engineering technology careers.

Learning Outcome 2: demonstrate the ability to identify, formulate, and present creative solutions to technical problems in a variety of specialty areas within the broad field of mechanical engineering technology.

Learning Outcome 3: be able to function competently in a laboratory setting, taking measurements, operating technical equipment, critically examining experimental results, and properly reporting on experimental results, including their potential for process improvement.

Learning Outcome 4: be able to use modern computational tools for technical problem solving, including scientific calculators, computers and appropriate software.

Learning Outcome 5: demonstrate a broad education and knowledge of contemporary issues in a global and societal context, as necessary to develop professional and ethical responsibility, including responsibility to employers and to society at large.

Learning Outcome 6: recognize the need for life-long learning, especially concerning the maintenance and improvement of technical skills

Learning Outcome 7: demonstrate an ability to communicate effectively and function effectively with members of multi-disciplinary teams and with other workers in an industrial setting, including those from a variety of backgrounds.