

MECHANICAL ENGINEERING TECHNOLOGY, AAS

Associate of Applied Science in Mechanical Engineering Technology (292001AAS)

More on the Mechanical Engineering Technology major (<https://www.uakron.edu/engineering/ME/>)

Contact Information

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Program Information

Mechanical Engineering Technology is concerned with the design of products and the machines required to manufacture them. Mechanical technicians are needed in all industries, from steelmaking to consumer products such as tires, cars, and home appliances. Mechanical technicians work along with engineers in design, testing, manufacturing, and servicing of the mechanical components and systems found everywhere in industry. The associate degree holder is well qualified to begin working in the various areas of mechanical technology.

Career Information

The demand by industry for mechanical technicians is now and will continue to be great. It is estimated that thousands of new mechanical technicians will be required each year. Mechanical technicians find employment in many areas of the mechanical field; some of the specific career opportunities include:

- Junior or Assistant Designer – Designs machine elements and/or systems.
- Engineering Aid - Assists the mechanical engineer, a good beginning for the inexperienced graduate.
- Laboratory Technician – Primarily responsible for evaluation of product or process diagnosis. May do field testing (tires, cars, etc.). Specifying materials from the design and processing standpoints.
- Customer Service Technician – Installs and maintains equipment on site. May also serve as sales representative in recommending a machine for a particular application.
- Plant Engineer – Establishes maintenance schedules and applies tool and machine design production process.

Placement or Optional Cooperative Education

Co-op work experiences are available on an optional basis in this academic program. To obtain additional information, contact the Career Center regarding these opportunities.

For additional information regarding career opportunities in the Mechanical Engineering Technology field, please visit the Bureau of Labor Statistics at www.bls.gov (<http://www.bls.gov/>) or the Career Center at

the Student Union, room 211, (330-972-7747) <http://www.uakron.edu/career> (<http://www.uakron.edu/career/>)

Bachelor Degree Programs

Upon completion of the Mechanical Engineering Technology Associate of Applied Science Degree, a student may proceed to the Mechanical Engineering Technology Bachelor of Science Degree. Please refer to the Mechanical Engineering Technology Bachelor of Science Degree Curriculum Guide for further information.

The following information has official approval of **The Department of Engineering and Science Technology** and **The College of Engineering and Polymer Science**, but is intended only as a supplemental guide. Official degree requirements are established at the time of transfer and admission to the degree-granting college. Students should refer to the Degree Progress Report (DPR) which is definitive for graduation requirements. *Completion of this degree within the identified time frame below is contingent upon many factors, including but not limited to: class availability, total number of required credits, work schedule, finances, family, course drops/withdrawals, successfully passing courses, prerequisites, among others.* The transfer process is completed through an appointment with your academic advisor. Transfer students should consult their Advisor to identify courses that are equivalent.

1st Year

Fall Semester		Hours
2020:121	English	3
2030:154	Technical Mathematics IV	3
2920:100	Survey of Mechanical Engineering Technology ¹	2
2920:121	Fundamentals of Engineering Drawing (Sch. Lab)	3
3650:160	Technical Physics: Mechanics (Sch. Lab)	4
Hours		15

Spring Semester

2020:222	Technical Report Writing	3
2420:263	Professional Communications and Presentations	3
2820:131	Software Applications for Technology (Sch. Lab)	1
2990:125	Statics	3
3650:163	Technical Physics: Electricity & Magnetism (Sch. Lab)	2
3650:164	Technical Physics: Heat & Light (Sch. Lab)	2
Hours		14

2nd Year

Fall Semester		
2030:255	Technical Calculus I	3
2880:248	Introduction to CNC and Additive Manufacturing	3
2920:101	Introduction to Mechanical Design (Sch. Lab) ¹	3
2920:243	Kinematics ¹	3
2920:251	Fluid Power ¹	2
2990:225	Strength of Materials	3
Hours		17

Spring Semester

2040:243	Contemporary Global Issues	3
2920:142	Introduction to Material Technology (Sch. Lab) ²	3
2920:245	Mechanical Design II (Sch. Lab) ²	5
2920:249	Applied Thermal Energy I ²	2
2920:252	Thermo-Fluids Laboratory ²	1
3002:256 or 3850:100 or 7750:244	Diversity in American Society or Introduction to Sociology or Death & Dying	3
	Hours	17
	Total Hours	63

¹ Traditionally Fall only (See Program Contact).

² Traditionally Spring only (See Program Contact).

Policy Alert: By the end of your first 48 credit hours attempted, you must have completed your required General Education English, Mathematics, and Communications (Speech) requirements.