

# Program Overview

The mission of Central Ohio Technical College is to meet the technical education and training needs of students and employers in the area.



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## Engineering Technology Mechanical Engineering Technology

The mission of the Engineering Technology—Mechanical Engineering Technology program at Central Ohio Technical College is to produce technically trained personnel who understand thermo-fluids, hydraulic, pneumatic controls, mechanical, and automated systems, and the generation and use of power. These technicians will play key roles in many aspects of today's highly technical environment, especially in the emerging area of green technologies.

The Mechanical Engineering Technology awards the Associate of Applied Science in Engineering Technology degree. The curriculum covers:

- Basic Computer applications (MS Office, CAD, MATLAB/SIMULINK)
- Basic thermo-fluid systems
- Hydraulic, pneumatic and electrohydraulic systems
- Mechanical systems.
- Introduction to automatic control and automation

Students learn in the classroom and in hands-on laboratories that use a mixture of actual components and computer simulations. Students may also focus on energy efficiency and alternative and renewable energy sources. To accommodate working students, most courses are available during the evening, and students may enroll full or part-time.

### Learning Outcomes

Program Educational Objectives describe what a student is expected to be able to do 3-5 years after graduation.

- Successfully apply fundamental mathematical, scientific, and

engineering technology principles in formulating and solving mechanical engineering technology problems;

- Successfully implement theory in one or more core mechanical engineering technology areas of practice in a sustainable manner;
- Work effectively and conduct themselves ethically in their professional environment; and
- Develop improved skills and new skills to enhance the state of their practice in a dynamic professional environment.

### Important Student Characteristics

- Detail-oriented and curious
- Interested in working in teams
- Logical
- Motivated to tinker

### Career Opportunities

Mechanical engineering technicians make thermo-fluid, mechanical, and hydraulic systems work and keep them working. They work closely with design engineers to make sure that customers' needs are met and will be able to find opportunities in a wide range of fields, including commercial, industrial, medical, and military. Emphasis on green energy technologies should provide even greater opportunities.

COTC graduates can expect to:

- Install mechanical and thermo-fluid systems
- Develop and test hydraulic, pneumatic and mechanical systems
- Evaluate and test products using measuring and diagnostic devices to adjust and repair equipment
- Set up, install, and operate energy generation and use systems.

- Assist mechanical engineers in design and analysis of systems

### Transferability

Mechanical Engineering Technology graduates are eligible to complete their technical bachelor's degree at several Ohio universities. Examples include Miami University, Ohio University's Bachelor's in Technical & Applied Studies program, and Kent State's Bachelor of Science in Technology.

### How do I Start?

New students can complete the **free** online application for admission at [cotc.edu/apply](http://cotc.edu/apply). Current or returning students can contact The Gateway at any of our four campus locations for your next steps.

#### The Gateway:

Newark Campus	740.366.9222 800.963.9275
Coshocton Campus	740.622.1408
Knox Campus	740.392.2526
Pataskala Campus	740.755.7090

[cotc.edu/gateway](http://cotc.edu/gateway)

COTC Admissions:

[cotcadmissions@mail.cotc.edu](mailto:cotcadmissions@mail.cotc.edu)

COTC Academic Advising:

[cotcadvising@mail.cotc.edu](mailto:cotcadvising@mail.cotc.edu)

*Faculty Advisors can be reached during the academic year from August to May.*

See reverse side for more information

[cotc.edu](http://cotc.edu)

## Accreditation/ Membership

The Mechanical Engineering Technology program is accredited by the Engineering Technology Accreditation Board for Engineering and Technology. (ETAC/ABET)  
<https://www.abet.org/>

Central Ohio Technical College is accredited by The Higher Learning Commission and is a member of the North Central Association.  
Phone: 312.263.0456  
[hlcommission.org](http://hlcommission.org)

COTC is also a member of the American Association for Higher Education, the American Association of Community Colleges, the American Council on Education, the American Technical Education Association, Inc., the Ohio Association of Two-Year Colleges and the Ohio College Association.

## Non-Discrimination Statement

Central Ohio Technical College is committed to building and maintaining a diverse community to reflect human diversity, and to improve opportunities for all. The college is committed to equal opportunity and eliminating discrimination. This commitment is both a moral imperative consistent with an intellectual community that celebrates individual differences and diversity, as well as matter of law. Central Ohio Technical College does not discriminate on the basis of age, ancestry, color, disability, gender, gender identity or expression, genetic information, HIV/AIDS status, military status (past, present or future), national origin (ancestry), race, religion, sex, sexual orientation, protected veteran status, status as a parent during pregnancy and immediately after the birth of a child, status as a parent of a young child, status as a foster parent or any other basis under the law, in its activities, programs, admission and employment. General information, questions, concerns or complaints related to these matters are to be directed to the Title IX Coordinator Holly Mason, Warner Center, Suite 236, Ohio State Newark/COTC, 1179 University Drive, Newark, Ohio 43055-1797 (740.364.9578) or ADA/504 Coordinator Connie Zang at the same location.



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