

# 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.



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

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## Engineering Technology Architectural Engineering Technology

Through many hands-on and lab based courses students are exposed to design and learn residential and commercial construction document production. The program places a heavy emphasis on computer aided drafting (CAD) and includes the most up-to-date versions of AutoCAD, Revit and SketchUp. The heart of the curricula includes additional courses designed to ground students in:

- Building Materials
- Green Design
- Building Codes
- Construction Management
- Mechanical Systems
- Structural Design
- Architectural History

Students also take a core of general education courses.

Within all COTC engineering technology majors there is a common core of engineering technology courses including a capstone class and co-op work experiences, that enhances the students' technical and soft skills to prepare them for the workplace.

### Computer Aided Drafting Certificate

The CAD certificate includes 16 credits and can be used in two ways:

- Stand-alone goal prepares the student for entry-level employment as a CAD drafter
- Short-term goal leads to the complete associate degree with all 16 credits applying immediately toward the Architectural Engineering Technology Major

### Learning Outcomes

The purpose of the Architectural Engineering Technology major is to prepare workforce ready technicians, with a broad engineering technology background, for the architecture, engineering technology, and construction industries.

- Utilize knowledge, techniques and skills to create accurate architectural documents and presentations with appropriate computer software to meet professional standards.
- Use mathematics, architectural/engineering technology theory and critical thinking skills to design and document functional solutions to meet established criteria and standards when given a design problem.
- Apply knowledge of proper uses and properties of architectural components and materials to develop buildable assemblies and details meeting construction standards.
- Exhibit professionalism and ethics through active participation in class activities and successful completion of group projects.
- Analyze an architectural process drawing for proper compliance with local building, zoning and design codes.
- Apply appropriate terminology, written, verbal and graphic, to effectively communicate with professionals in the Architecture, Engineering and Design office environment.
- Demonstrate an understanding of the need for a lifelong commitment to quality, timeliness, continuous improvement and professional development.

### Important Student Characteristics

- Critical thinking skills
- Detail oriented
- Interpersonal skills
- Computer/technical skills
- 3-D visualization skills

### Career Opportunities

Classroom and lab experiences prepare Architectural Engineering Technology major graduates for a dynamic career in construction or engineering offices such as architectural, civil, mechanical and structural. COTC graduates are skilled in design and the production of working drawings using CAD. Additionally graduates know building codes, site work, materials, structural and mechanical systems, sustainability and green design. With this broad based educational curriculum graduates can work in a variety of jobs supporting the engineering technology and construction industry. This program is designed in response to employer needs, providing job-ready skills for employment.

### Transferability

COTC graduates of Engineering Technology who wish to continue their education are eligible to complete their technical bachelor's degree at several Ohio universities, such as Bowling Green State University, Ohio University, and Miami University. Some 2+2 options for bachelor's degree completion include Kent State's Bachelor of Science in Technology and Ohio University's Bachelor's in Technical and Applied Studies.

See reverse side for more information.

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

## How do I Start?

New students can complete the **free** online application for admission at [cotc.edu/apply](https://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](https://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.*

## Accreditation/ Membership

The Architectural 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](https://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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