Engineering Technology
Civil Engineering Technology

The Civil Engineering Technology program awards an Associate of Applied Science Degree. The program offers an excellent curriculum designed to provide well-rounded skills and experiences essential in today’s engineering technology and construction environment. Many of the skills developed by students of the program can be used for entry in Ohio’s growing oil and gas industry.

All students learn construction document production with heavy emphasis on computer aided drafting (CAD) including AutoCAD and Civil 3D. The heart of the curricula includes hands-on coursework custom-designed to ground students in:

- Construction Materials & Testing
- Surveying
- Soils
- Mapping
- Green Construction
- Structural & Foundation Design

Students also take an industry-recommended core of engineering technology courses.

In Civil Engineering Technology at COTC, classroom theory is reinforced with hands-on inside and outside laboratory applications. Lab activities include surveying, sampling and testing soils, concrete, and aggregates, and using industry current hardware to run 3D designing & drafting software.

Because many students prefer to work while pursuing their degree, the program offers a flexible schedule. Students may enroll full or part time.

Computer Aided Drafting Certificate

The CAD certificate includes 15 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 15 credits applying immediately toward Civil Engineering Technology

Learning Outcomes

- Utilize practical engineering technology skills within productive, gainful, and ethical careers in architecture, engineering, construction and related industries and organizations.
- Contribute to the professional practice of their chosen field through effective communication, leadership, teamwork, and service, while maintaining high ethical and professional standards.
- Demonstrate continued life-long learning through professional activities and training, the pursuit of higher educational degrees, and individual professional improvement.

Important Student Characteristics

- Critical thinking skills
- Detail oriented
- Interpersonal skills
- Technical skills
- Time-management skills

Career Opportunities

Civil Engineering Technology graduates are in high demand. Hands-on classroom and lab experiences prepare graduates for dynamic careers in the architecture, construction and engineering industries. COTC graduates are skilled in the design and production of working drawings using CAD. Also, graduates know site work, construction materials, structural and mechanical systems, surveying and soils. Grades can work on the design and construction of bridges, buildings, dams, highways, treatment facilities and water supply.

COTC Graduates of the Civil Engineering Technology program can be qualified for the following job titles:

- Civil Engineering Technician
- CAD Technician
- Field Supervisor
- Project Leader
- Survey Technician
- Materials Tester
- Construction Inspector

Transferability

COTC graduates of Civil 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.

How do I Start?

New students can complete the free online application for admission at cotc.edu/apply. Current or retuning students can contact The Gateway at any of our four campus locations for your next steps. See next page for more information.
Faculty Advisors can be reached during the academic year from August to May.

Accreditation/ Membership

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

Accreditation/ Membership

Central Ohio Technical College is accredited by The Higher Learning Commission and is a member of the North Central Association. Phone: 312.263.0456 hlccommission.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 identity or expression, genetic information, HIV/AIDS status, military status, national origin, race, religion, sex, sexual orientation, protected veteran status, 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.