

# Civil Engineering Technologies

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Civil engineering deals with the planning, design, construction, and maintenance of buildings, houses, roads, bridges, and public utilities. Every construction project involves civil engineers and support technicians engaged in many different capacities, including design, supervision, and inspection.

Civil engineering technology harnesses the power of advanced computer technologies in the fields of visualization, measurement, and planning to deliver high quality projects. The civil engineering technician is constantly adapting the latest technological tools to solve problems that serve clients and the public at large.

The Civil Engineering Technologies Department at Cincinnati State offers three programs leading to an associate's degree:

- **The Architectural major (CETAO)** focuses on the design of building systems, including lighting, HVAC, mechanical, and electrical systems. Graduates use their expertise in computer-aided drafting (CAD) to modify and finalize an architect's or engineer's detailed design plan.
- **The Construction Management major (CETCO)** concentrates on understanding project documentation, building methods and materials, estimating, scheduling, and team dynamics. Graduates have the skills necessary to successfully deliver a construction project.
- **The Surveying major (CETSO)** emphasizes operation of state-of-the-art surveying equipment and computer software to collect data and propose solutions in boundary resolution, subdivision design, construction layout, and control networks.

All of these programs prepare graduates to successfully pursue a bachelor's degree in a related academic area, and to enter the workforce and advance professionally through technical and management positions in industry.

Students who complete the Surveying major may continue in Cincinnati State's Bachelor of Applied Science in Land Surveying (<http://catalog.cincinnati.edu/archives/2020-2021/academicdivisionsanddegreeampcertificateprograms/engineeringandinformationtechnologiesdivision/landsurveying/>).

Courses are scheduled to meet the needs of traditional full-time students as well as part-time students, who can earn an associate's degree while attending classes two nights per week.

The department also offers certificates for educational and professional advancement in surveying.

- **The Advanced Land Surveying Certificate (ASC)** serves as a conduit for graduates of an accredited associate's degree surveying program to earn a surveying-focused bachelor's degree at Northern Kentucky University.
- **The Land Surveying Certificate (LSC)** is designed for graduates and students in bachelor's degree civil engineering programs who wish to be eligible for the professional surveyor examinations in the State of Ohio.

The Civil Engineering Technology program is accredited by the Engineering Technology Accreditation Commission of ABET, 415 N. Charles St., Baltimore, MD 21202-4012. Phone (410) 347-7700.

Additionally, the Construction Management major has earned accreditation from the American Council for Construction Education (ACCE), making it the only program in the United States to hold both accreditations.

For more information, please contact the Engineering and Information Technologies Division at (513) 569-1743.