

Civil Engineering Technologies

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 two programs leading to an associate's degree:

- The **Architectural Major** (<https://catalog.cincinnati.edu/archives/2024-2025/academicdivisionsanddegreeampcertificateprograms/engineeringandinformationtechnologiesdivision/civilengineeringtechnologies/cetao/>) (CETAO) (<https://catalog.cincinnati.edu/archives/2024-2025/academicdivisionsanddegreeampcertificateprograms/engineeringandinformationtechnologiesdivision/civilengineeringtechnologies/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. This program is accredited by the American Council for Construction Education (ACCE).

Both 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.

The department also offers two certificates:

- The **Construction Supervisor Certificate (CSC)** (<https://catalog.cincinnati.edu/archives/2024-2025/academicdivisionsanddegreeampcertificateprograms/engineeringandinformationtechnologiesdivision/civilengineeringtechnologies/cetco/>) provides a pathway for construction workers to advance to supervisory positions.
- The **Virtual Design and Construction Certificate (VDCC)** (<https://catalog.cincinnati.edu/archives/2024-2025/academicdivisionsanddegreeampcertificateprograms/engineeringandinformationtechnologiesdivision/civilengineeringtechnologies/cetco/>) assists construction professionals who want to upgrade their skills.

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.

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