CONSTRUCTION ENGINEERING TECHNOLOGY, AAS

Associate of Applied Science in Construction Engineering Technology (299103AAS)

Program Information

The AAS in Construction Engineering Technology program includes classroom and laboratory experiences which prepare students for careers in the construction industry and other allied industries.

More on the Construction Engineering Technology programs (https://www.uakron.edu/engineering/CE/undergraduate/construction-tech/)

Career Information

Individuals working in the field of construction engineering technology use knowledge of construction methods, business operations, and management skills to support construction projects. They work on residential and commercial buildings, bridges, road dams, wastewater treatment systems, or other similar projects. Common jobs assumed by graduates of this program include but are not limited to:

- **Engineering Technician** - use the principles and theories of science, engineering, and mathematics to solve technical problems in research and development, manufacturing, sales, construction, inspection, and maintenance.
- **Construction Inspector** - ensure that construction, alteration, or repair complies with building codes and ordinances, zoning regulations, and contract specifications.
- **Cost Estimator or Cost Engineer** - responsible for creating the budget for a project to bid on it or aid in the project's management. Monitors and analyzes project cost estimates, expenditures, and forecasts.
- **Scheduler** - planning and scheduling of construction work and work crew. Gathers and analyzes information to prepare reports on the progress of projects.
- **Field Engineer** - Monitors activities at construction sites. Works to ensure construction progresses as scheduled and contract specifications are adhered to. Inspects construction site daily and works with contractors to complete scope items.
- **Project Engineer** - Under the supervision of the Project Manager, provides technical support to construction staff. Reviews plans and other technical documents, answers questions regarding the scope and/or timing of the project, and monitors costs and project progress.

Bachelor Degree Program

Upon completion of the Associate of Applied Science in Construction Engineering Technology, a student may enroll in the Bachelor of Science in Construction Engineering Technology (299103BS).

The following information has official approval of the **Department of Civil Engineering** and **The College of Engineering and Polymer Science**, but is intended only as a supplemental guide. Official degree requirements are established at the time of transfer and admission to the degree-granting college. Students should refer to the Degree Progress Report (DPR) which is definitive for graduation requirements. *Completion of this degree within the identified time frame below is contingent upon many factors, including but not limited to: class availability, total number of required credits, work schedule, finances, family, course drops/withdrawals, successfully passing courses, prerequisites, among others.* The transfer process is completed through an appointment with your academic advisor.

1st Year		
Fall Semester		**Hours**
2020:121	English	3
2030:154	Technical Mathematics IV	3
2990:129	Computer Applications in Construction (Sch. Lab) [1]	3
2990:131	Building Construction [1]	2
3650:261	Physics for Life Sciences I	4
	Hours	15
Spring Semester		
2030:255	Technical Calculus I	3
2420:263	Professional Communications and Presentations	3
2990:125	Statics	3
2990:150	Plan Reading [2]	2
3300:222	Technical Report Writing	3
	Hours	14
2nd Year		
Fall Semester		
2990:225	Strength of Materials	3
2990:237	Materials Testing I (Sch. Lab) [1]	2
2990:246 or 2980:101	Site Engineering [1] or Basic Surveying	3
3650:262	Physics for Life Sciences II	4
2990:xxx	Technical Elective	3
	Hours	15
Spring Semester		
2990:234	Elements of Structures [2]	3
2990:238	Materials Testing II [2]	2
2990:245	Construction Estimating [2]	3
2990:xxx	Technical Elective [3]	6
	Social Sciences Requirement	3
	Hours	17
	Total Hours	61

1. Traditionally Fall only (See Program Contact).
2. Traditionally Spring only (See Program Contact).
3. Technical Electives are subject to enrollment demands and classroom schedules. See the list below.

Policy Alert: By the end of your first 48 credit hours attempted, you must have completed your required General Education English, Mathematics, and Communications (Speech) requirements.

Technical Electives

Code	Title	Hours
2870:332	Management of Technology Based Operations	3
2980:xxx	Select 2980 Courses	

2990:254	Building Codes	3
2990:310	Residential Building Construction	3
2990:312	Neighborhood Revitalization Project	3
2990:359	Construction Cost Control	3
2990:361	Construction Formwork	3
2990:362	Advanced Elements of Structures	3
2990:465	Heavy Construction Estimating	3
2990:471	Understanding LEED Guidelines	3
2990:489	Special Topics in Construction	1-3
2990:490	Workshop in Construction	1-3
2990:498	Independent Study in Construction	1-3