

Civil Engineering Technology

Survey & Materials

www.dtcc.edu • Delaware Technical & Community College

The Civil Engineering Technology is one of the broadest fields in the overall practice of engineering. Civil engineering technicians help to design and construct highways, bridges, pipelines, dams, tunnels, structural systems, and a lot more. You will find this program valuable if you want to be involved in the surveying, layout, construction, material testing, inspecting, scheduling, coordinating, and supervising of engineering projects.

What You'll Learn...

- Solving problems in a logical, systematic way
- Drafting and how to use computer-aided drafting
- Reading and interpreting engineering drawings
- Performing surveys to gather data or layout for a construction project
- Performing standard tests and inspections on various materials
- Interpreting and applying reference and technical information
- Preparing estimates and specifications

What You'll Earn...

- A competitive salary with excellent opportunities for advancement
- A wide array of employment opportunities in departments of natural resources or transportation; material testing laboratories; or civil, surveying, or consulting engineering firms
- The opportunity to broaden and advance your skills in new areas
- The opportunity to practice your profession and, in time, qualify to take a licensing examination to become a registered surveyor or engineer

Why You'll Succeed...

- Many of the higher paying jobs, now and in the future, will be in a technical career field requiring an education beyond high school
 - Employees with degrees tend to be more eligible for promotion*
 - Associate degree holders generally earn more than high school graduates*
 - College credit may be awarded for relevant work experience
 - Many credits from an Associate Degree may be applied toward a Bachelor Degree
- *Statistics from U.S. Department of Commerce, Bureau of Census*

Civil Engineering

You can enroll in the Civil Engineering Technology on either a full-time or part-time basis. The length of time required to complete an Associate Degree depends on the number of courses you take each semester. Some students may need refresher courses at the basic or pre-tech level; others may receive transfer credit or credit for work experience. Delaware Tech operates on a semester system with new terms beginning in late August and mid-January, plus summer terms beginning at the end of May and in mid-June. You can start taking courses any semester or summer term; however, all technical courses may not be offered every term.

CORE COURSES

Courses		Credits
ENG 121	Composition.....	3
		or
ENG 125	Honors Composition.....	3
ENG 122	Technical Writing & Communication.....	3
		or
ENG 124	Oral Communications.....	3
MAT 181	Algebra and Trigonometry I.....	4
		and
MAT 182	Algebra and Trigonometry II.....	4
		or
MAT 185	PreCalculus.....	4
		or
MAT 281	Calculus.....	4
Select two (2) courses from		
COM 111	Human Communications.....	3
ECO 111	Macroeconomics.....	3
ECO 122	Microeconomics.....	3
HIS 111	U.S. History: Pre-Civil War.....	3
		or
HIS 112	U.S. History: Post-Civil War.....	3
POL 111	Political Science.....	3
PSY 100	Human Relations.....	3
		or
PSY 121	General Psychology.....	3
SOC 111	Sociology I.....	3
VSC 131	Art History I.....	3
		or
VSC 132	Art History II.....	3

TECHNICAL SUPPORT/COMPUTER COURSES

Courses		Credits
CET 236	Soils.....	3
CET 240	Hydraulics and Hydrology.....	4
CET 238	Concrete and Asphalt.....	3
CET 247	Route Surveying and Design.....	4
CET 248	Boundary Surveying and Law.....	3
CET 251	Topographic Drafting.....	3

TECHNICAL COURSES

Courses		Credits
AET 123	Drafting & Design.....	4
AET 135	Construction Materials & Methods.....	4
AET 232	Contracts & Specifications.....	3
AET 234	Cost Estimating & Planning.....	3
CET 144	Surveying Principles.....	4
		or
CET 146	Surveying.....	3
CET 256	Statics & Strength of Materials.....	5
EDD 171	Introduction to CAD Using AutoCAD.....	3
PHY 205	General Physics I.....	4

Getting Started

1. Obtain an application by calling (302)857-1020. Complete and return to Terry Campus with a \$10 application fee.
2. Take the College Placement Test (CPT) *unless college-level math, reading, and English courses have been completed with a "C" grade or better.* The CPT will determine appropriate placement and is scheduled by the Admissions Office.
3. Request that high school and/or college transcripts be sent to the Admissions Office.
4. Meet with a Delaware Tech counselor to discuss CPT results.
5. Meet with advisor to plan schedule.
6. Apply and register early for the best selection of courses.

Standards of Excellence

- ❖ Over 90% of technology graduates are working in their career field