

APPLIED ENGINEERING & TECHNOLOGIES

CIVIL ENGINEERING TECHNOLOGY

Civil Engineering Technology Degree - A40140

The Civil Engineering Technology curriculum provides the application of relevant theory of engineering needed by technicians to carry out planning and supervisory tasks in the construction of transportation systems, residential and commercial buildings, bridges, dams, and water and wastewater treatment systems.

Course work includes the communication and computational skills required to support the fields such as materials testing, structures, estimating, project management, hydraulics, environmental technology, and surveying. Additional course work will cover the operation of computers and application software including computer-aided drafting.

Graduates should qualify for technician-level jobs with both public and private engineering, construction, and surveying agencies and are also eligible to continue on at East Carolina University and UNC-Charlotte as a junior.

Civil Engineering Technology: Office/CAD - C40140A

The Civil Engineering Technology Certificate allows students to complete the certificate in two to three semesters. Students are then able to work in the civil field. This certificate is designed to address the all-time high demand for technicians, and to train for jobs in these fields with just a small amount of college. This certificate is for students that are not sure which path they would like to follow. The Civil Design certificate will allow you to work as an engineering technician in engineering offices throughout the country. One job function would be to place ideas down on the computer by working directly with an engineer.

Civil Engineering Technology: Field Technician – C40140B

Civil Engineering Technology: Design – C40140C

Program Sequence

First Semester

ACA 115	Success & Study Skills.....	1
CEG 115	Intro to Tech and Sustainability.....	3
CEG 115A	Tech and Sustainability Lab	1
CEG 151	CAD for Engineering Technology	3
ENG 111	Expository Writing	3
HUM 110	Technology and Society.....	3
MAT 121	Algebra and Trigonometry.....	3

Second Semester

CEG 111	Introduction to GIS and Gnss.....	4
CIV 125	Civil/Surveying CAD.....	3
EGR 251	Statics	3
SRV 110	Surveying I	4
COM 120	Intro to Interpersonal Communication	3

Complete Office/CAD Certificate (C40140A): CEG 111, CEG 115, CEG 151, CIV 125, EGR 251

Third Semester

SRV 111	Surveying II	4
SRV 260	Field and Office Practices	2

Fourth Semester

CEG 211	Hydrology and Erosion Control.....	3
CEG 212	Intro to Environmental Technology	3
CIV 111	Solis and Foundations	4
EGR 252	Strength of Materials	3
PSY 118	Interpersonal Psychology	3

Fifth Semester

CEG 210	Construction Materials and Methods	3
CEG 230	Subdivision Planning and Design	3
CEG 235	Project Mgmt and Estimating.....	3
CIV 215	Highway Technology	3
Elective List I	2

Complete Field Technician Certificate (C40140B): CEG 210, CIV 111, CIV 215, SRV 111

Complete Design Certificate (C40140C): CEG 211, CEG 212, CEG 230, CEG 235, EGR 252

Elective List I (Select 2 hours from the following courses):

CST 131	OSHA/Safety Certification	3
WBL 112	Work-Based Learning I.....	2

Graduation Requirements 70 Credit Hours