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 Gns.........................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 Soils 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