

Civil Engineering Technology

Associate in Applied Science Degree

This program prepares a student to start a career in the Civil Engineering Technology field or transfer to a higher education institution concentrating in Civil Engineering Technology. Coursework addresses the planning, design, and/or construction phase of civil engineering projects including aspects such as highways, transportation, bridges, dams, buildings, environmental, hydraulic, and hydrology. Instruction occurs in classroom, field, and laboratory settings. The program includes the use of MicroStation, the Computer Aided Drafting and Design (CADD) platform used currently in the Civil Engineering field, which reflects the workplace of a civil engineering technician.

A Capstone Project taken from industry is completed using knowledge gained in the program. This program is accredited by the Engineering Technology Accreditation Commission of ABET, <http://www.abet.org>.

(a) Restricted Social Science Electives: AN101 Biological Anthropology, BM101 Survey of Economics, PS101 American National Government, PY101 Introduction to General Psychology, or SO101 Introduction to Sociology.

Total Credit Hours: 64

First Semester

CF100 College Foundations Seminar	1.0
EN101 English 1: Composition	3.0
CT102 Engineering Drawing and Microstation CAD	3.0
CT141 Introduction to Civil Engineering Technology	2.0
CT265 Introduction to Geographic Information Systems	3.0
MA121 Fundamentals of College Mathematics 1	4.0
Physical Education Elective	0.5

Second Semester

EN102 English 2: Ideas and Values in Literature	3.0
CT121 Statics	3.0
MA122 Fundamentals of College Mathematics 2	4.0
PH151 General Physics 1	4.0
Social Science Elective (a)	3.0
Physical Education Elective	0.5

Third Semester

CT151 Surveying 1	4.0
CT221 Strength of Materials: Civil	4.0
CT222 Soil Mechanics and Foundations	4.0
CT231 Transportation Engineering	3.0
Physical Education Elective	0.5

Fourth Semester

CT225 Structural Steel Design	3.0
CT226 Reinforced Concrete Design	3.0
CT232 Environmental Engineering	3.0
CT243 Construction Management	2.0
CT299 Capstone Design Project - Civil	3.0
Physical Education Elective	0.5