

CIVIL ENGINEERING TECHNOLOGY
Associate in Science Major Code 2109

Program Description

The increasing availability of computers has created a high demand for technicians with a two-year college degree. Most of the tasks that professional engineers used to perform with the calculator can now be delegated to engineering technicians with the skills acquired from this two-year program. The program has been implemented to upgrade or prepare students for the various disciplines in civil engineering (structural, sanitary, highway, land development, etc.) for both the private sector and the government. Positions available in the industry may be as civil engineering technicians to perform computer-oriented tasks for the professional engineer (hydraulics, land development, highways, structural analysis, and drafting) or as field inspectors for all the structural and civil engineering applications.

This program, offered at the Downtown Higher Education Complex (Willis Holcombe Center), is oriented toward entry-level students, but many of the courses offered reflect the requirements of the industry for the kind of help that civil engineers need at their level.

First Year Term I

*ENC 1101	Composition I	3
CGS 1060C	Computer and Internet Literacy	3
*ETC 1250C	Materials and Processes	3
*MAC 1105	College Algebra	3
Elective	Social/Behavioral Science	3
Total Term Semester Hours		15

First Year Term II

BCN 1252C	Building Construction Drawing I	4
*MAC 1114	Trigonometry	3
ETD 1320	Basic CAD	3
*PHY 1001	Applied Physics	3
*PHY 1001L	Applied Physics Lab	1
Total Term Semester Hours		14

First Year Term III, Session II

SPC 1024	Intro to Speech Communications or	
SPC 1600	Public Speaking	3
*SUR 2001	Surveying	1
*SUR 2001L	Surveying Lab	2
Total Term Semester Hours		6

Second Year Term I

*BCN 2256C	Building Construction Drawing II	4
*SUR 2140C	Route Surveying	3
*ENC 2210	Technical Report Writing	3
BCT 1600	Building Construction Estimating	2
BCT 2941L	Field Experience	1
Total Term Semester Hours		13

Second Year Term II

*BCN 2614C	Planning and Estimating	3
Elective	Humanities/Fine Arts	3
ARC 2580	Structures	4
BCT 2705	Infrastructure Coordination	2
EVS 2005	Water/Waste Water	3
Total Term Semester Hours		15
Total Program Semester Hours		63

*Requires a pre- or co-requisite. See course description in this catalog or online.

Courses should be taken in the sequence and term suggested unless approved by the Department Head.

It is strongly recommended that students see an academic advisor or counselor every term.