

**BLUEGRASS COMMUNITY AND TECHNICAL COLLEGE**

**Civil Engineering Technology  
Associate in Applied Science**

Academic Plan Code – 1502017019

**Description:**

The Civil Engineering Technology program is an Associates of Applied science program designed to offer students the training necessary to establish career in civil engineering technology fields. Career options include materials testing, commercial, residential and highway surveying; highway construction management; construction management; construction estimation; construction documentation; construction sight design and waste-water management.

The Civil Engineering Technology Program will focus on the field task and hands on aspects of construction.

GIS110	Spatial Data Analysis & Map Interpretation	3
COE199	Cooperative Education	1 to 3
ACH291	Construction Management	3
ACH292	Building Codes II	3
ACH294	Specification Writing	3
ACH297	Estimating Techniques	3
ACH298	Computer 3-D Modeling	3
GIS120	Intro. To Geographical Info Systems	3
GIS220	Advan. Geographic Information Sys	3
CET295	Independent Studies	1-4
GLY220	Principals of Physical Geology	4

Course Number	Course Description	Credit Hours
<b>General Education Core</b>		
ENG 101	Writing I	3
ENG 102	Writing II	3
	Humanities or Heritage Course	3
PHY 211	Physics	5
MA 109 or MT150	College Algebra	3
MA112 or MT155	Trigonometry	2
	Social Interaction Course	3
	Oral Communications Course	3
	<b>Subtotal Credits Hours</b>	<b>25</b>
<b>Technical Core or Support Courses</b>		
ACH 195	Computer Aided Drafting I	3
ACH 160	Building Materials and Construction I	3
CE 211	Surveying (course is offered at the University of Kentucky)	4
CET 150	Civil Engineering Graphics	3
CET 200	Civil Engineering Materials	3
CET 210	Structural Analysis and Design	3
CET 220	Intermediate Surveying	4
CET 260	Hydrology and Drainage	3
ACH 225	Structures	3
	Elective	3
	Technical Electives	9
	<b>Subtotal Credit Hours</b>	<b>41</b>
	<b>Total Credit Hours</b>	<b>66</b>
<b>Technical Electives</b>		
CET280	Highway Design	3
CAD200	Intermed. Computer Aided Design	3
ACH100	Construction Documents I	3
ACH150	Construction Documents II	3
ACH161	Building Materials	3
ACH285	Computer Aided Drafting II	3
ACH290	Building Codes I	3

(Courses are listed by category and not necessarily in the order to be taken)