

## Recommended Course Sequence

*Effective S2011*

**Certificate / Major:** Civil Engineering Technology

**Department:** Applied Technology

**Program Coordinator:** Jerry Miller 527-4376

### First Semester (Fall 13 units)

Course Number	Course Name/Description	Units	Semester(s) Offered
APTECH 45	Basic Manual Drafting	1.5	F
APTECH 46	Intro to AutoCAD	2	F
APTECH 90A (or)	Applied Mathematics I	4	F
MATH 155	Intermediate Algebra	4	F
CEST 192	Non-technical skills for the technician	1.5	F
SURV 50	Intro to Plane Surveying	4	F

### Second Semester (Spring 14 units)

Course Number	Course Name/Description	Units	Semester(s) Offered
GIS 40	Intro to GIS	3	Sp
APTECH 90B (or)	Applied Mathematics II	4	Sp
MATH 27	Precalculus Algebra and Trigonometry	5	Sp
CEST 51	Civil Drafting Technology	3	Sp
SURV 51	Plane Surveying Applications	4	Sp

### Third Semester (Fall 9 units)

Course Number	Course Name/Description	Units	Semester(s) Offered
CEST 65	Public Works Plan Interpretation & Estimating	3	F
CEST 85	CAD for Civil, Surveying, and Land Development	3	F
Discipline Elective	See List Below	3	

### Fourth Semester (Spring 9 units)

Course Number	Course Name/Description	Units	Semester(s) Offered
CEST 63	Subdivision Planning	3	Sp
CEST 64	Public Works Inspection & Testing	3	Sp
CEST 81	Engineering Construction & Design	3	Sp

See below for Discipline Electives

## Discipline Electives

CEST 98	Independent Studies in Civil Engineering, Surveying & Geospatial Technology	1.0-4.0
CEST 99i	Civil Engineering, Surveying & Geospatial Technology Internship	1.0-4.0
GIS 51	Intermediate GIS	3.0
GIS 52	Advanced GIS	3.0
GIS 53	Cartography in GIS	3.0
GIS 54	Data Acquisition in GIS	3.0
GIS 55	GIS Applications in Earth Science	3.0
GIS 56	GIS Applications in Land Planning	3.0
SURV 53	Route Surveying & Design	4.0
SURV 56	Introduction to GPS	3.0
SURV 57	Advanced GPS Applications	3.0
SURV 58	Evidence & Procedures for Boundary Determination	3.0
SURV 59	Boundary Control & Legal Principles	3.0

### Notes

Minimum number of units to meet certificate requirements

**45**

Minimum number of units to meet certificate requirements

### **Complete for the major:**

LIR 10, 30,	Library & Information Resources	1.0
	Minimum number of units to meet major requirements	<b>46.0</b>

*last updated 7/12/11*