

## COMPUTER-AIDED DRAFTING (CAD) (CONT'D)

### STRUCTURAL AND CIVIL CERTIFICATE

Program Code: E.CIV.CER

#### Certificate

Graduation requirement — 29 semester hours

The Computer-Aided Drafting: Structural and Civil certificate prepares the student for employment as a drafting technician in the design of buildings, roads, utility systems, and site improvements. Course work includes 3D modeling for buildings and site work, automated drafting of survey data, geographic information systems, and computer networking.

#### Suggested Full-time Sequence

##### FALL

1st Semester

CAD 124

CIT 130

CTC 132

CTC 177

CTC 193

CSC 133

SRV 113

##### SPRING

2nd Semester

CAD 132

CAD 214

CAD 232

CSC 130

GIS 115

EST 110

#### Required Program Courses (29 hours)

Cr. Hrs.

CAD 124	Introduction to AutoCAD (Computer-Aided Drafting) . . . . .	2
CAD 132	Introduction to MicroStation . . . . .	2
CAD 214	Building Information Modeling (BIM) with Revit . . . . .	2
CAD 232	Civil Survey CAD Applications . . . . .	2
CIT 130	Construction Plan Fundamentals . . . . .	3
CSC 130	Introduction to Computer Networks . . . . .	3
CSC 133	PC Hardware and OS Maintenance . . . . .	4
CTC 132	Computer Basics I . . . . .	1
CTC 177	Database Applications I . . . . .	1
CTC 193	Windows . . . . .	1
GIS 115	Remote Sensing Applications . . . . .	3
EST 110	Engineering Science and Technologies — CAD Work Experience . . . . .	2
SRV 113	Basic Surveying . . . . .	3

Total Semester Credit Hours

29