

ENGINEERING

Civil Engineering & Surveying Technology Applied Surveying Option Associate of Applied Science

PROGRAM DESCRIPTION

This degree option includes additional occupational skills training to prepare students with more on-the-job work experience. The option includes 24 credit hours of occupational skills training/cooperative work experience. This is the equivalent of approximately 5 months of fulltime work experience. UCC Engineering faculty advisors will assist with finding placement for occupational skills training/cooperative work experience.

PROGRAM OUTCOMES

Learning outcomes are the same as for AAS degree in Civil Engineering & Surveying Technology.

CAREER CONSIDERATIONS

The occupational skills training component of the degree option will provide students with on-the-job work experience with local employers.

PROGRAM COURSE REQUIREMENTS

Year One

Program Requirements

CIV 214	Virtual Design -CAD -Civil3D	3
DRF 112	Computer Aided Drafting (CAD) I	3
DRF 113	Computer Aided Drafting (CAD) II	3
ENGR 111	Engineering Orientation	3
ENGR 112A	Problem Solving & Technology	2
ENGR 112B	Problem Solving & Technology	1
ENGR 245	Engineering Graphics -SolidWorks	3
GIS 203	Digital World & Geospatial Concepts	4
GIS 234	GIS: Intro to Geographic Systems	4
GIS 235	GIS II: Analysis and Applications	4
SUR 161	Plane Surveying I	4

General Education Requirements

Human Relations Elective, from Approved List on page 43	3	
MTH 111	College Algebra	5
MTH 112	Elementary Functions	4
WR 121	Academic Composition	4

Year One Credits 50

Year Two

Program Requirements

CIV 280	Cooperative Work Experience*	24
CWE 161	CWE Seminar I	1
SUR 162	Plane Surveying II	4
SUR 163	Route Surveying	4
SUR 242	Land Description & Cadastre	3

General Education Requirements

MTH 251	Calculus I	5
MTH 252	Calculus II	4
SP 112	Fundamentals of Public Speaking	4
WR 227	Technical Writing	4

Year Two Credits 48

*Note: Each 1 credit hour of Cooperative Work Experience equals 33 hours of on-the-job training.