

Surveying Technology Certificate

Program Description

The Surveying Technology program prepares the student for immediate employment as a surveying or Geographic Information Systems (GIS) technician and teaches the student knowledge and skills that will enable one to adapt to ever evolving technical and technological changes in geospatial field and office applications. The graduate will be prepared to face the challenge of modern Surveying and GIS practice. The program emphasizes applications-based approaches and provides an overview of the geospatial fields of surveying, mapping, and GIS and prepares the student for further study and for the Level 1 Certified Survey Technician examination prepared by the American Society on Surveying and Mapping National Society of Professional Surveyors (ACSM-NSPS).

Program Student Learning Outcomes (SLOs):

Upon successful completion of the Certificate in Surveying Technology program, students will be able to:

1. Demonstrate preparedness to enter productive technical positions in the geospatial fields of surveying, mapping, and Geographic Information Systems.
2. Successfully pass the American Society on Surveying and Mapping National Society of Professional Surveyors (ACSM-NSPS) Level 1 Certified Survey Technician examination.
3. Develop a professional work ethic needed in the surveying industry.

General Education Requirements		
Course #	Course Name	Credits
EN 110	English Composition	3
MA 110A	Finite Mathematics	3
Technical Requirements		
Course #	Course Name	Credits
SU 100	Surveying Drafting	3
SU 101	Surveying Problems I	3
CE 211	Plane Surveying I	3
CE 222	Plane Surveying II	3
SU 230	Advanced Surveying	3
SU 250	Introduction to Geographic Information Systems	3
SU 292	Surveying Practicum	1
Related General Education & Technical Requirements		
Course #	Course Name	Credits
AE 121	Technical Engineering Drawing I	3
AE 150	Computer Aided Design & Drafting (CADD) I	3
CS 101	Introduction to Computer Systems & Information Technology	3
HL 130	First Aid & Safety	1
MA 161A	College Algebra & Trigonometry I	4
MA 161B	College Algebra & Trigonometry II	4
Certificate Total		43