

## Associate of Science in Surveying Technology

### 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 3 Certified Survey Technician examination prepared by the American on Surveying and Mapping National Society of Professional Surveyors (ACSM-NSPS).

### Program Student Learning Outcomes (SLOs):

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

1. Demonstrate preparedness to enter productive technical position 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 3 Certified Survey Technician examination.
3. Develop a professional work ethic needed in the surveying industry.
4. Demonstrate ability to utilize modern measurement technologies to acquire spatial data and employ industry-standard software to solve technical problems.

General Education Requirements		
Course #	Course Name	Credits
EN 110	Freshman Composition	3
MA 161A	College Algebra & Trigonometry I	4
SO 130	Introduction to Sociology	3
CS 151	Windows Applications	3
PY120	General Psychology	3
SI 141	Applied Physics I	4
<b>Total</b>		<b>20</b>
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 240	Boundary Law I	3
SU 241	Boundary Law II	3

SU 250	Introduction to Geographic Information Systems	3
SU 251	Advanced Geographic Information Systems	3
SU 280	Special Topics in 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 161B	College Algebra & Trigonometry II	4
OA 101	Keyboarding and Document Processing	3
<b>Total</b>		<b>48</b>
<b>Program Total</b>		<b>68</b>

## Associate of Science in Surveying Technology – Semester Breakdown

Year 1			Year 2		
Semester 1			Semester 3		
Course #	Course Name	Credits	Course #	Course Name	Credits
EN 110	Freshman Composition	3	CS 151	Windows Applications	3
MA 161A	College Algebra & Trigonometry I	4	SI 141	Applied Physics I	4
CS 101	Introduction to Computer Systems & Information Technology	3	SU 250	Introduction to Geographic Information Systems	3
CE 211	Plane Surveying I	3	SU 240	Boundary Law I	3
AE 121	Technical Engineering Drawing I	3	SU 230	Advanced Surveying	3
<b>Total</b>		<b>16</b>	<b>Total</b>		<b>16</b>
Semester 2			Semester 4		
Course #	Course Name	Credits	Course #	Course Name	Credits
AE 150	Computer Aided Design & Drafting (CADD) I	3	SU 251	Advanced Geographic Information Systems	3
CE 222	Plane Surveying II	3	PY 120	General Psychology	3
MA 161B	College Algebra & Trigonometry II	4	SO 130	Introduction to Sociology	3
OA 101	Keyboarding and Document Processing	3	SU 280	Special Topics in Geographic Information Systems	1
SU 101	Surveying Problems I	3	HL 130	First Aid & Safety	1
SU 100	Surveying Drafting	3	SU 292	Surveying Practicum	3
			SU 241	Boundary Law II	3
<b>Total</b>		<b>19</b>	<b>Total</b>		<b>17</b>
<b>Year 1 Total</b>		<b>30-31</b>	<b>Year 2 Total</b>		<b>31</b>
<b>Program Total</b>					<b>61-62</b>