SURVEYING, ASSOCIATE IN APPLIED SCIENCE DEGREE

NMC Code 577

The Surveying program focuses on the technical aspects of surveying, ensuring students in the program are trained to meet varying roles surveyors play in the workforce. In today's ever changing world of technology, autonomous vehicles, construction and development there has never been more demand for surveyors. All boundaries defining ownership, road construction, housing, schools, and commercial structures, cell phone towers, fiber optic line, gas pipe line, solar panel farms, oil – gas exploration, dams, rails, bridges, mining requires the assistance of a properly trained land surveyor.

The tools that a modern-day surveyor use are technically very advanced and vary depending on the accuracy and precision required for a specific task. Leica Geosystems has partnered with NMC to provide a comprehensive set of equipment, ensuring every student in the program has ready access to the most recent tools and technology.

Requirements

Major Requirements

Course	Title	Credits
General Education Requirements		
ENG 111	English Composition	4
ENG 220	Technical Writing	3
MTH 122	Trigonometry	3
GEO 115	Introduction to GIS	3
PHL 105	Critical Thinking	3
or PHL 203	Environmental Ethics	
PHY 105	Physics of the World Around Us	4
or PHY 121	General Physics I	
Occupational Specialty Requirements		
MTH 131	Intro to Prob & Stats	3
UAS 121	UAS Applications in Surveying (Spring only)	3
SVR 111	Intro to Field Surveying	2
SVR 112	Intro to Surveying Data Use	3
SVR 120	CAD for Surveying	4
SVR 150	Construction Survey App	5
SVR 160	Surveying Calculations	3
SVR 210	Surveying Positioning	5
SVR 220	Boundary Surveying	3
WSI 200	GL Research Technologies	3
WSI 300	Remote Sensing and Sensors	3
Approved Elective		3-4
Total Credits		**60-61**

Note: *This program requires a minimum of 60 credits. Courses tested out or waived must be replaced with approved program electives.*

Program Requirements 60

Course Sequence Guide

Course	Title	Credits
Year 1		
Fall		
SVR 111	Intro to Field Surveying (Fall only)	2
SVR 112	Intro to Surveying Data Use (Fall only)	3
SVR 120	CAD for Surveying (Fall only)	4
Approved Elective		3-4
	Credits	**12-13**
Spring		
ENG 111	English Composition	4
MTH 122	Trigonometry	3
SVR 150	Construction Survey App (Spring only)	5
SVR 160	Surveying Calculations (Spring only)	3
	Credits	**15**
Summer		
WSI 200	GL Research Technologies (Summer only)	3
GEO 115	Introduction to GIS	3
	Credits	**6**
Year 2		
Fall		
ENG 220	Technical Writing	3
MTH 131	Intro to Prob & Stats	3
SVR 220	Boundary Surveying (Fall only)	3
WSI 300	Remote Sensing and Sensors (Fall only)	3
PHL 105 or PHL 203	Critical Thinking or Environmental Ethics	3
	Credits	**15**
Spring		
SVR 210	Surveying Positioning (Spring only)	5
UAS 121	UAS Applications in Surveying (Spring only)	3
PHY 105 or PHY 121	Physics of the World Around Us or General Physics I	4
	Credits	**12**
	Total Credits	**60-61**

The responsibility for determining the transferability of this degree and courses to another institution is the sole responsibility of the student.