



**Surveying Engineering (SURV)**

**Core Requirements**

Code	Title	Credits	Prerequisites	Corequisites
CSCI250	Introduction to Programming	3		ENGL101 - CSCI250L
CSCI250L	Introduction to Programming Lab	1		ENGL101 - CSCI250
EENG250	Electric Circuits I	3	ENGL051	MATH210
IENG300	Engineering Project Management	3	ENGL201	
MATH210	Calculus II	3	MATH161 - MATH160	
MATH220	Calculus III	3	MATH210	
MATH225	Linear Algebra with Applications	3	MATH161 - MATH160	
MATH270	Ordinary Differential Equations	3	MATH210	MATH225
MATH310	Probability & Statistics for Scientists & Engineers	3	MATH210 - ENGL201	
MENG225	Engineering Drawing & CAD	3		
MENG250	Mechanics I (Statics)	3	ENGL051	MATH210
PHYS220	Physics for Engineers	3	PHYS161 - ENGL101 - PHYS160	MATH210
Total		34		

**Major Requirements**

Code	Title	Credits	Prerequisites	Corequisites
SURV305	Surveying I	3	MATH210	SURV305L
SURV305L	Surveying Practice I Lab	1		SURV305
SURV315	Geology	3	ENGL201	
SURV325	Cartography	3		SURV305
SURV335	Surveying Drawing & CAD	3	MENG225	
SURV355	Surveying II	3	SURV305	SURV355L
SURV355L	Surveying Practice II Lab	1	SURV305	SURV355
SURV365	Geodesy I	3	SURV325	
SURV375	Topometric Calculus I	3	SURV305	
SURV385	Computer Aided Drafting for Surveyors	3	SURV335	
SURV405	Photogrammetry	3	SURV355	
SURV414	Cadastral Surveying and Construction LAW	3	SURV355	
SURV420	Surveying application I	3	SURV375 - SURV355	
SURV425	Topometric Calculus II	3	SURV375	
SURV435	Theory of Measurement Errors	3	MATH310 - SURV355	
SURV445	Geodesy II	3	SURV365	
SURV455	Geographic Information Systems I	3	SURV325 - SURV405	
SURV465	Spatial Geodesy (GPS I)	3	SURV445	
SURV474	Urban Planning and Land Subdivision	3	SURV414	
SURV495	Senior Project	3	SURV420 - IENG300	
Total		56		

**General Education Requirements**

Code	Title	Credits	Prerequisites	Corequisites
ARAB200	Arabic Language and Literature	3		
CULT200	Introduction to Arab - Islamic Civilization	3		

ENGL201	Composition and Research Skills	3	ENGL151	
ENGL251	Communication Skills	3	ENGL201	
Total		12		

**General Education Electives**

Code	Title	Credits	Prerequisites	Corequisites
	Elective	3		
	Elective	3		
Total		6		

**Major Elective Courses**

Code	Title	Credits	Prerequisites	Corequisites
There are no Major Elective Courses				