GEOMATICS TECHNOLOGY

Geomatics Technology Degree - A40420

The Geomatics Technology curriculum provides training for technicians in the many areas of surveying. Surveyors are involved in land surveying, route surveying, construction surveying, photogrammetry, mapping, global positioning systems, geographical information systems, and other areas of property description and measurements.

Course work includes the communication and computational skills required for boundary, construction, route, and control surveying, photogrammetry, topography, drainage, surveying law, and subdivision design, with emphasis upon applications of electronic data collection and related software including CAD.

Graduates should qualify for jobs as survey party chief, instrument person, surveying technician, highway surveyor, mapper, GPS technician, and CAD operator. Graduates will be prepared to pursue the requirements necessary to become a Registered Land Surveyor in North Carolina.

Geomatics Technology: CAD Certificate – C40420A

Geomatics Technology: Field Technician Certificate – C40420B

Geomatics Technology: Design Certificate – C40420C

Program Sequence

FIRST .	semes	ter	
ACA	115	Success & Study Skills	1
CEG	115	Intro to Tech and Sustainability	3
CEG	115A	Intro to Tech and Sustainability Lab	1
SRV	110	Surveying I	4
MAT	121	Algebra and Trigonometry	3
PSY	118	Interpersonal Psychology	3
Seco	nd Sen		
CEG	111	Introduction to GIS/GNSS	4
CEG	151	CAD for Engineering Tech	
COM	120	Into to Interpersonal Communication	3
ENG	111	Writing and Inquiry	3
SRV	111	Surveying II	4
	Semes		
CIV	125	Civil/Surveying CAD	3
	260		2
Fourt	h Sem		
CEG	211	Hydrology and Erosion Control	3
COM	120	Intro to Interpersonal Communication	3
HUM	110	Technology and Society	3
GIS	121	Georeferencing and Mapping	3
SRV	210	Surveying III	4
CD//	250	Advanced Surveying	1

Complete Field Technician Certificate (C40420B): SRV 110, SRV 111, SRV 210, SRV 260

CEG 230 Subdivision Planning and Design3			
GIS 246 Principles of Property Mapping			
Complete CAD Certificate (C40420A): CEG 111, CEG 115, CEG 151, CIV 125, GIS 246			
Complete Design Certificate (C40420C): CEG 211, CEG 230, SRV 240, SRV 250			
Sixth Semester Elective List II2			
Elective List I (Select 3 hours from the following courses): CEG 210 Construction Materials & Methods			
Elective List II (Select 2 hours from the following courses): CST 131 OSHA/Safety/Certification			
Graduation Requirements72 Credit Hours			