

**Bachelor of Science
Geomatics (Fall 2012)
Major Code: 0387**

Freshman

Semester 1		Cr	Semester 2		Cr
Student Success Elective		3	ENGL 101	Ideas and Their Expressions II	3
ENGL 100	Ideas and Their Expressions I	3	PHYS 241	General Physics I	3
MATH 131	Calculus I	4	PHYS 251	General Physics I Lab	1
CAAE 101	Introduction to Graphics	2	MATH 132	Calculus II	4
CM 150	Construction Documents	3	CM 160	Construction Drawings and Specs	3
			Social / Behavioral Science Elective *		3
Semester Total		15	Semester Total		17

Sophomore

Semester 3		Cr	Semester 4		Cr
Humanities / Fine Arts Elective*		3	CIEN 381	Civil Engineering Land CAD	1
PHYS 242	General Physics II	3	GEOM 205	Surveying II	4
PHYS 252	General Physics II Lab	1	Computer Programming Elective **		2
CM 214	Surveying	3	Technical Elective**		3
Science Elective**		3	Technical Elective**		3
Technical Elective**		3	GEOM 271	Land Survey Systems	3
Semester Total		16	Semester Total		16

Junior

Semester 5		Cr	Semester 6		Cr
GEOM 340	Adjustment Computations I	3	GEOM 341	Adjustment Computations II	3
GEOM 366	Hydraulics and Piping Systems	2	GEOM 360	Geodesy	3
GEOM 307	Automated Surveying & Mapping	4	GEOM 367	Hydrology	2
MATH 450	Linear Algebra and Matrices	3	GEOM 350	Subdivision Design	3
GCS 327	Introduction to GIS	3	GEOM 320	Introduction to Photogrammetry	3
			Elective**		3
Semester Total		15	Semester Total		17

Senior

Semester 7		Cr	Semester 8		Cr
GEOM 496	Senior Project I (Capstone)	1	GEOM 499	Senior Project II (Capstone)	4
GEOM 470	Boundary and Legal Principles	3	GEOM 400	Fund of Land Surveying Review	1
GEOM 460	Satellite Positioning Systems	3	Humanities / Fine Arts Elective *		3
GEOM 471	Professionalism and Ethics in Geomatics	1	Business / Law / Construction Mgmt. Elective **		3
GEOM 420	Analytical Photogrammetry	3	Elective **		3
Social / Behavioral Science Elective *		3			
Semester Total		14	Semester Total		14

Total Credit Hours 124

*General Education Requirements: Of the twelve (12) hours in social/behavioral science and humanities/fine arts, at least 3 hours of African-American studies courses and 3 hours in a global studies course will fulfill the requirement.

** Electives to be approved at program level

Effective: Fall 2012

Approved: 6-2012