

# Bachelor of Science in Geomatics

**Major Code: 0387 and 7387**

**Effective Fall 2019**

Freshman

Semester 1			Semester 2		
		Cr			Cr
ENGL 100	Ideas and Their Expressions I (WC)	3	ENGL 101	Ideas and Their Expressions (WC)	3
MATH 131	Calculus I (MLAR)	4	PHYS 225	College Physics I (SR)	3
CM 100	Intro to Technology	3	PHYS 235	College Physics I Lab (SR)	1
GEOM 107	Introduction to UAVs	3	MATH 132	Calculus II (MLAR)	4
FRST 101	College Success (SS)	1			
Social / Behavioral Science Elective * (SBS)		3	African American Culture * (AA)		3
Semester Total		17	Semester Total		14

Sophomore

Semester 3			Semester 4		
		Cr			Cr
Humanities / Fine Arts Elective* (HFA)		3	GEOM 271	Land Survey Systems	3
PHYS 226	College Physics II (SR)	3	GEOM 205	Surveying II	4
PHYS 236	College Physics II Lab (SR)	1			
CM 214	Surveying	2	ECT 101	Microcomputer Applications	3
CM 224	Surveying Lab	1	Global Awareness * (GL)		3
GEOM 310	Geographic Information Systems	3	Technical Elective**		3
Semester Total		13	Semester Total		16

Junior

Semester 5			Semester 6		
		Cr			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	3	GEOM 367	Hydrology	2
GEOM 317	Automated Surveying and Mapping Lab	1	GEOM 350	Subdivision Design	3
MATH 450	Linear Algebra and Matrix Theory	3	GEOM 320	Introduction to Photogrammetry	3
Science Elective **		3	Free Elective		3
Semester Total		15	Semester Total		17

Senior

Semester 7			Semester 8		
		Cr			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	Technical Elective**		3
GEOM 471	Professionalism and Ethics in Geomatics	1	GEOM 465	Advanced UAV Processes	3
GEOM 420	Analytical Photogrammetry	3	Free Elective		3
Technical Elective**		3			
Semester Total		14	Semester Total		14

Approved June 2018

**Total Credit Hours 120**

\*General Education Requirements from Approved List: 3 hours of Humanities and Fine Arts (HFA), 3 hours of Social and Behavioral Sciences (SBS), 3 hours of African American Cultures (AA) and 3 hours of Global Awareness (GL). These will be selected from four different pools.

\*\* Electives to be approved at program level