

Bachelor of Science in Geomatics

Major Code: 0387 and 7387

NEW Fall 2024

Freshman

Semester 1			Cr	Semester 2			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			Cr	Semester 4			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					
GEOM 204	Fundamentals of Surveying Theory	2		CST 101	Microcomputer Applications	3	
GEOM 214	Fund. of Surveying Theory Lab	1		Global Awareness * (GL)			3
GEOM 310	Geographic Information Systems	3		Technical Elective**			3
Semester Total			13	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 351	Linear Algebra and Matrix Theory	3		GEOM 350	Subdivision Design	3	
Science Elective		3		GEOM 320	Introduction to Photogrammetry	3	
				Free 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		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

Total Credit Hours 120

Approved: June 2024

*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