

MAJORING IN GEOMATICS

Geomatics is the integrated approach to measurement, analysis, and management of spatial data. Graduates are employed by government and private organizations in surveying and mapping positions, as well as other facets of collecting, analyzing, and using spatial data. The major is accredited by the Accreditation Board for Engineering and Technology.

The following is a suggested course track. While it is preferred that students begin courses in Fall (August), students may be admitted for the Fall, Spring, or Summer terms.

Term	Course Title	Course Number	Credits	Offered
JUNIOR Fall 15 credits	Geomatics	SUR 3103C	3 credits	Fall
	Geographic Information Systems / Lab	SUR 3393/L	3 credits	Fall
	Surveying Computations	SUR 3641	3 credits	Fall
	Visualization of Spatial Information	SUR 3323	3 credits	Fall
	Research & Business Writing in Agriculture or Technical Writing	AEC3033C or ENC2210	3 credits or 3 credits	Fall, Spring and Summer
JUNIOR Spring 15 credits	Measurement Science	SUR 3520	3 credits	Spring
	Spatial Measurement Systems / Lab	SUR 3501/L	3 credits	Spring
	Photogrammetry / Lab	SUR 3331/L	3 credits	Spring
	Agricultural and Natural Resource Law or Legal Environment of Business	AEB 4123 or BUL 4310	3 credits or 4 credits	Spring FA, SP, and SU
	Principles of Agribusiness Management or Principles of Management	AEB 3133 or MAN 3025	3 credits or 4 credits	Fall and Spring FA, SP, and SU
Summer -1 credit	Co-op Work Experience	SUR 4949	1 credit	All terms
SENIOR Fall 15 credits	Dendrology / Forest Plants	FOR 4934	2 credits	Fall
	Route Geometrics and Design	SUR 4201	3 credits	Fall
	Geodesy and Geodetic Positioning	SUR 4530	3 credits	Fall
	Advanced Photogrammetry	SUR 4350C	3 credits	Fall
	Cadastral Principles	SUR 4403	3 credits	Fall
SENIOR Spring 13 credits	Surveying and Mapping Practice	SUR 4430	3 credits	Spring
	Remote Sensing	SUR 4380	3 credits	Spring
	Subdivision Design	SUR 4463	3 credits	Spring
	Senior Project	SUR 4912	2 credits	Fall and Spring
	Forest Water Resources or Environmental Hydrology or Wetlands	FNR 4343C or AOM 4643 or SWS 4244	3 credits or 3 credits or 3 credits	Spring Fall Spring
Summer- 1 credit	Co-op Work Experience	SUR 4949	1 credit	All terms
Upper Division TOTAL			60 Credits	