

# Majoring in Geomatics

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## Professional Surveying & Mapping Specialization

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. This specialization is accredited by ABET (the Accreditation Board for Engineering and Technology).

Below is a suggested course track. It is recommended that students begin in fall, but they may start in 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	GIS 3072C	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 or Professional Communication	AEC 3033C or ENC 2210 or ENC 3254	3 credits or 3 credits	Fall, Spring & Summer
JUNIOR Spring 15 credits	Measurement Science	SUR3520	3 credits	Spring
	Foundations of UAS Mapping	SUR 4501C	3 credits	Spring
	Photogrammetry	SUR 3331C	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, & SU
	Principles of Agribusiness Management or Principles of Management	AEB 3133 or MAN 3025	3 credits or 4 credits	Spring FA, SP, & SU
SU – 2 credits	Co-op Work Experience	SUR 4949	2 credits	All terms
SENIOR Fall 15 credits	Florida Forest Communities or Dendrology/Forest Plants	FOR 4934 or FNR 3131C	2 credits or 3 credits	Fall 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
	Supervised Research	SUR 4911	1 credit	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	1 credit	Spring
	Natural Resource Electives Marine Geomatics or Spatial Sciences for Marine Env. Char. or Wetlands or Environmental Hydrology or Natural Resource Policy and Economics or Forest Water Resources or Soil & Water Conservation or Principles of Geologic Hydrology	Choose one course: SUR 4934 ◊ or FAS 4932 ◊ or SWS 4244 or AOM 4643 or FNR 4660 or FNR 4343C or SWS 4233 or GEO 3280	3 credits or 3 credits or 3 credits or 3 credits or 3 credits or 3 credits or 3 credits	Summer Fall Fall Fall Fall Spring Spring As Offered
Upper Division TOTAL			60 Credits	

+ SUR4934, FOR4934 and FAS4932 are Topics courses. You must complete the specific topic course listed on this semester plan in order to earn credit for that requirement.