

# Majoring in Geomatics

(352)-846-0847 or khaselier@ufl.edu

## Geospatial Analysis 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.

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	SUR 3520	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 FNR 3131C	2 credits or 3 credits	Fall Fall
	Geodesy and Geodetic Positioning	SUR 4530	3 credits	Fall
	Advanced Photogrammetry	SUR 4350C	3 credits	Fall
	Analysis elective, Geospatial Application elective, and/or Geomatics elective	*Options below	6 credits	Fall
	Supervised Research	SUR 4911	1 credit	Fall
SENIOR Spring 13 credits	Analysis elective, Geospatial Application elective, or Geomatics elective	*Options below	3 credits	Spring
	Geospatial Analysis	GIS 4121	3 credits	Spring
	Remote Sensing	SUR 4380	3 credits	Spring
	Senior Project	SUR 4912	1 credit	Fall & Spring
	Marine Geomatics or Wetlands or Environmental Hydrology or Forest Water Resources or Natural Resource Policy and Economics or Principles of Geologic Hydrology	SUR 4934 or SWS 4244 or AOM 4643 or FNR 4343C or FNR 4660 or GEO 3280	3 credits or 3 credits or 3 credits or 3 credits or 3 credits or 3 credits	Spring <i>Even Yrs</i> Spring Fall Spring Fall As offered
Upper Division TOTAL			60 Credits	

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### **\*Analysis Electives (choose at least one)**

FNR 3410C Natural Resource Sampling 3 – Fall  
GEO 3162C Introduction to Quantitative Analysis for Geographers 4 – Fall  
QMB 3250 Statistics for Business Decisions 4 – Spring  
STA 3024 Introduction to Statistics 2 3 – Spring  
STA 3032 Engineering Statistics 3 – Spring

### **\*Geospatial Application Electives (choose at least one)**

AOM 4434 Precision Agriculture 3 – Spring  
EES 4050 Environmental Planning and Design 3 – when offered  
FNR4461 Spatial Models and Decision Analysis 3 – when offered  
GIS 3420C GIS Models for Public Health 3 – Spring  
GIS 4001C Maps and Graphs 4 – Spring  
GIS 4037 Digital Image Processing 4 – Fall  
GIS 4113 Introduction to Spatial Networks 3 – when offered  
SUR 4940C Practicum in UAS Mapping 3 – Summer A  
SUR 4934 Geospatial Application of UAS 3 – Fall

### **\*Geomatics Electives (choose at most one)**

SUR 4201 Route Geometrics and Design 3 – Fall  
SUR 4403 Cadastral Principles 3 – Fall  
SUR 4430 Surveying & Mapping Practice 3 – Spring  
SUR 4463 Subdivision Design 3 – Spring  
SUR 4934 Special Topics in Geomatics 3 – when offered