



Majoring in Geomatics

Jackie Gilley- jgilley1@ufl.edu - 352-273-3852

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. This major is accredited by ABET-ANSAC (the Accreditation Board for Engineering and Technology-Applied and Natural Science Accreditation Commission).

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 [◇]	SUR3103C	3 credits	Fall
	Geographic Information Systems [◇]	GIS3072C	3 credits	Fall
	Surveying Computations [◇]	SUR3641	3 credits	Fall
	Visualization of Spatial Information [◇]	SUR3323	3 credits	Fall
	Research & Business Writing in Agriculture or Technical Writing or Professional Communication	AEC3033C or ENC2210 or ENC3254	3 credits or 3 credits	Fall, Spring, & Summer
JUNIOR Spring 15 credits	Measurement Science [◇]	SUR3520	3 credits	Spring
	Foundations of UAS Mapping [◇]	SUR4501C	3 credits	Spring
	Photogrammetry [◇]	SUR3331C	3 credits	Spring
	Agricultural and Natural Resource Law or Legal Environment of Business	AEB4123 or BUL4310	3 credits or 4 credits	Spring FA, SP, & SU
	Principles of Agribusiness Management or Principles of Management	AEB3133 or MAN3025	3 credits or 4 credits	Fall or Spring FA, SP, & SU
SU – 2 credits	Co-op Work Experience	SUR4949	2 credits	All terms
SENIOR Fall 15 credits	Florida Forest Communities or Dendrology/Forest Plants	FOR3173 or FNR3131C	2 credits or 3 credits	Fall Fall
	Geodesy and Geodetic Positioning [◇]	SUR4530	3 credits	Fall
	Advanced Photogrammetry [◇]	SUR4350C	3 credits	Fall
	Supervised Research	SUR4911	1 credit	Fall
	Analysis elective, Geospatial Application elective, and/or Geomatics elective	* Options below	6 credits	Fall or Spring
SENIOR Spring 13 credits	Geospatial Analysis [◇]	GIS4121	3 credits	Spring
	Remote Sensing [◇]	SUR4380	3 credits	Spring
	Senior Project [◇]	SUR4912	1 credit	Spring
	Analysis elective, Geospatial Application elective, and/or Geomatics elective	* Options below	3 credits	Fall or Spring
	Natural Resource Elective: 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: SUR4345 or FAS4304 or SWS4244 or AOM4643 or FNR4660 or FNR4343C or SWS4233 or GEO3280	3 credits or 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 Summer C As offered
Upper Division TOTAL			60 Credits	

◇ Minimum grade of C required.



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Total of three courses required:

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

FNR3410C Natural Resource Sampling 3 – Fall
GEO3162C Introduction to Quantitative Analysis for Geographers 4 – Fall
QMB3250 Statistics for Business Decisions 4 – Spring
STA3024 Introduction to Statistics 2 3 – Spring
STA3032 Engineering Statistics 3 – Spring

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

AOM4434 Precision Agriculture 3 – Spring
EES4050 Environmental Planning and Design 3- when offered
FNR4461 Spatial Models and Decision Analysis 3 – when offered
GIS3001C Geovisualization and Map Design 4- when offered
GIS3420C GIS Models for Public Health 3- when offered
GIS4037 Digital Image Processing 4 – Fall
GIS4113 Introduction to Spatial Networks 3 – when offered
SUR4940C Practicum in UAS Mapping 3 – Summer A
SUR4376 Geospatial Application of UAS 3 – Fall

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

SUR4201 Route Geometrics and Design 3 – Fall
SUR4403 Cadastral Principles 3 – Fall
SUR4430 Surveying & Mapping Practice 3 – Spring
SUR4463 Subdivision Design 3 – Spring
SUR4934 Special Topics in Geomatics 3 – when offered