



Majoring in Geomatics

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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 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 | 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 | FNR3073 or FNR3131C | 2 credits or 3 credits | Fall Fall |
| | Route Geometrics and Design* | SUR4201 | 3 credits | Fall |
| | Geodesy and Geodetic Positioning* | SUR4530 | 3 credits | Fall |
| | Advanced Photogrammetry* | SUR4350C | 3 credits | Fall |
| | Cadastral Principles* | SUR4403 | 3 credits | Fall |
| | Supervised Research | SUR4911 | 1 credit | Fall |
| SENIOR Spring 13 credits | Surveying and Mapping Practice* | SUR4430 | 3 credits | Spring |
| | Remote Sensing* | SUR4380 | 3 credits | Spring |
| | Subdivision Design* | SUR4463 | 3 credits | Spring |
| | Senior Project* | SUR4912 | 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: 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 | Summer Fall Fall Fall Fall/ Spring Spring Summer C As Offered |
| Upper Division TOTAL | | | 60 Credits | |

*Minimum grade of C required.