The geomatics profession collects, manages, and analyzes geospatial data through ground surveying, photogrammetry, remote sensing, satellite positioning, inertial measurements, echo-sounding, and laser scanning. Geomatics students study geometry, statistics, boundary law, and surveying and mapping instrument usage.

About this Program
- **College**: Agricultural and Life Sciences (http://catalog.ufl.edu/UGRD/colleges-schools/UGAGL)
- **Degree**: Bachelor of Science in Geomatics
- **Specializations**: Geospatial Analysis (http://catalog.ufl.edu/UGRD/colleges-schools/UGAGL/GEM_BSGE/GEM_BSGE01) | Surveying and Mapping (http://catalog.ufl.edu/UGRD/colleges-schools/UGAGL/GEM_BSGE/GEM_BSGE02)
- **Credits for Degree**: 120
- **Additional Information**
- **Related Geomatics Programs**

To graduate with this major, students must complete all university, college, and major requirements.

Geomatics students learn how land, infrastructure, and natural resources are measured, analyzed, and integrated into useable forms and systems. Students gain hands-on experience working with field equipment and in high-tech classrooms. Present land values, rates of urban development, and environmental concerns require a broad set of expertise to develop, manage, and apply geospatial information. Students majoring in Geomatics complete either the Surveying and Mapping specialization or the Geospatial Analysis specialization.

Both specializations within the Geomatics major are offered at the Fort Lauderdale Research and Education Center in Ft. Lauderdale, FL, the Gulf Coast Research and Education Center in Plant City, FL (near Tampa) and at the Mid-Florida Research and Education Center in Apopka, FL (near Orlando).

Related Geomatics Programs
- Geomatics certificate (http://catalog.ufl.edu/UGRD/colleges-schools/UGAGL/AGL_UCT06)
- Mapping with Small Unmanned Aerial Systems certificate (http://catalog.ufl.edu/UGRD/colleges-schools/UGAGL/AGL_UCT11)

Academic Learning Compact
Geomatics addresses land information development and management through field survey, photogrammetry, remote sensing, satellite positions and other techniques. The program is nationally accredited and graduates often obtain licensure as professional surveyors and mappers.

A nationally accredited ABET (http://www.abet.org) program.

Students in the Major Will Learn to

**Student Learning Outcomes (SLOs)**

**Content**
1. Knowledge and competency in geometry, statistics, boundary law, surveying and mapping instrument usage and statutes and ordinances pertaining to professional practice.

**Critical Thinking**
2. Define problems, formulate solutions, assess legal evidence, interpret statistical results, design a system or process, and understand professional and ethical issues.

**Communication**
3. Create, interpret and analyze written text, oral messages and multimedia presentations.

Curriculum Map

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Assessment Types

- Labs
- Projects
- Papers
- Exams
- Presentations

Before Graduating Students Must

- Pass the geomatics competency exam, given in five parts. One part will be given in each of these required courses:

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<td>Surveying and Mapping Practice</td>
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