

UF Geomatics @ Fort Lauderdale Newsletter

December 2017

Program News

The geospatial industry has witnessed the explosive growth of mapping with unmanned aerial systems (UAS – a.k.a. drones) over the past few years. The [UF Geomatics program](#) has been well positioned to offer insight on best practices for mapping with these tools by parlaying its extensive UAS research experience into [UAS mapping courses available to both degree seeking and non-degree seeking students](#).

The UF Geomatics program @ Fort Lauderdale has seen its UAS capabilities and interdisciplinary research activities increase as a result of receiving a UF/IFAS equipment grant. The funding was used to purchase a multispectral sensor for deployment in UAS monitoring of agricultural and natural resource areas in South Florida. We look forward to continuing our current UAS collaborations and forging new relationships with local agencies, industry, and other academic departments in the future!



UAS-derived false color infrared orthophoto showing facilities and vegetation (pre-Irma) at UF Fort Lauderdale REC

The [Human Library](#) and [South Florida Career Construction Days](#) are a couple examples of recent outreach activities that have raised awareness of the excellent career opportunities available for interested students.

Recent presentations at conferences given by the UF Geomatics @ Fort Lauderdale research group include the [Transportation Research Board](#) (Washington, D.C.), [AGILE 2017](#) (Netherlands), [ASPRS IGTF2017](#) (Baltimore, MD), [State of the Map US 2017](#) (Boulder, CO), [South Florida GIS Expo](#) (West Palm Beach, FL) and the [Southwest Florida GIS Symposium](#) (Fort Myers, FL).

Lastly, congratulations to our newest graduates: Felipe Carvalho (BS), Edith Cooper (BS), Julian Vondiergardt (BS), Alexandria Hancock (MS) and Mark Hughes (MS)!

Registration for [Spring 2018 courses](#) is now available.
[Contact us today](#) for an advising appointment!

UF GEM @ Fort Lauderdale Benefits

- UF degree (BS, MS, PhD) without going to Gainesville
- Numerous scholarships & internships
- High professor-student ratio
- Modern equipment & software
- Flexible scheduling for working & traditional students
- Reduced fees
- Ability to take distance education courses from the comfort of home
- Well connected to local industry

Important 2018 Dates

- Jan. 8: Spring classes begin
- Feb. 1: Undergrad. admission app. [deadline \(Sum. C\)](#)
- Apr. 15: Undergrad. admission app. [deadline \(Fall\)](#)
- May 4-6: Spring commencement
- May 9: Sum. A/C classes begin
- Aug 22: Fall classes begin
- Oct. 1: Undergrad. admission app. [deadline \(Spr. 19\)](#)

Selected Geomatics Publications

- [Individual Movement Strategies Revealed through Novel Clustering of Emergent Movement Patterns](#)
- [Where to catch 'em all? – a geographic analysis of Pokémon Go locations](#)
- [Analyzing Refugee Migration Patterns Using Geo-tagged Tweets](#)

Recent Accomplishments

- Dr. Henry Hochmair received a [3-year UF Term Professorship Award](#)
- Levente Juhász received a [UF CALS Fall 2017 Outstanding Achievement Award](#) and a scholarship awarded by the Austrian Marshall Plan Foundation to fund a research exchange visit in Austria
- Adam Benjamin received the [Mark Eckl Memorial Award](#) and his FL [Professional Surveyor & Mapper License](#)

This newsletter couldn't possibly cover it all, so we encourage everyone to visit:

<http://mygeomatics.com>

A Message To Prospective Undergrad Students

The University of Florida's Fort Lauderdale Research & Education Center (FLREC) offers a 4-year, ABET accredited degree, the [Bachelor of Science in Geomatics](#), which fully prepares graduates for professional licensure in the state of Florida and beyond. We are located 1 mile off Interstate 595 in the NW corner of the South Florida Education Center ([Directions](#)).

Our program is designed for both full-time and working students. Students registered at our campus can participate in live lectures either on site or from their home/office via video conferencing technology. Further, lectures are recorded so students can watch them from any personal computer with basic broadband internet service. Our lab courses, which typically occur in the evenings or on Saturdays, have been adjusted to be flexible with student work schedules.

We recommend that students:

1. Obtain an Associate of Arts degree (AA) from a Florida college to complete all UF general education requirements
2. Satisfy their AA with the prerequisite courses required for admission to the Geomatics Program (listed on the right.) By taking these courses while earning their AA, students can be admitted faster into the Geomatics Program.

Geomatics courses can be taken in non-degree seeking status prior to admittance but some limitations apply. Please contact us to find out if the non-degree seeking status will work for you.

Each semester students have the opportunity to apply for various college scholarships and internships. We encourage all students to apply for our local scholarships as well as those at the regional and national levels (e.g. FSMS, ASPRS, & NSPS scholarships). So, what are you waiting for? Contact us today to see how we can change your future!



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Undergrad Geomatics Admission Prerequisites

1. SPC2608 – Public Speaking
2. PHY2053/PHY2053L – Gen. Physics 1 + Lab (or PHY2048/PHY2048L)
3. PHY2054/PHY2054L – Gen. Physics 2 + Lab (or PHY2049/PHY2049L)
4. STA2023 – Statistics
5. MAC 2311 – Calculus I (or MAC1114 + MAC2233 – Trigonometry + Business Calculus)
6. ECO2013 – Macroeconomics (or ECO2023 – Microeconomics)
7. COP#### – Advisor Approved Programming Course (Python, C++, Visual Basic, Java, etc.)

Career Potential

- Competitive salaries for graduates
- Public & private sector opportunities
- Advancement through licensure
- Historically, 50% of graduates own or partner in a business within 5 years of graduation

Areas of Study

- Professional Surveying
- Geospatial Analysis
- Photogrammetry & LIDAR
- Unmanned Aerial Systems
- GIS & Remote Sensing
- Cartography
- Cadastral Science
- Spatial Analysis
- Land Development
- Geospatial Intelligence

