

University Undergraduate Programs Committee (UUPC) Report of Action Items Approved at the Meeting of November 2, 2012

1. New Certificate Program in Geomatics Engineering

The Geomatics Engineering program is proposing a 13-credit undergraduate Certificate in Geomatics Engineering. The proposed certificate is intended to be available to all students, full or part time, enrolled in a major or not, including the general public who may not be enrolled at any post-secondary institution, as detailed in the memo below. **The UUPC approved the proposal.**

Certificate Program in Geomatics Engineering

Students are entitled to the Geomatics Engineering Certificate by completing a minimum of 13 credits of coursework with a grade of “C” or better. Selected courses must be checked for the proper prerequisites.

Required Courses (to be taken first) — 7 credits:

*Introduction to Geomatics Engineering*¹ (3 credits, existing course) SUR 2034

*Plane Surveying*² with Lab (3-credit lecture, 1-credit lab, existing courses) SUR 2101, SUR 2101L

With an additional 6 or more credits from the list below:

*Photogrammetry with Lab*³ (2-credit lecture, 1-credit lab, existing courses) SUR 3331, SUR 3331L

*Automated Surveying and Mapping with Lab*³ (3-credit lecture, 1-credit lab, existing courses) SUR 3141, SUR 3141L

*Land Subdivision and Platting with Lab*³ (2-credit lecture, 1-credit lab, existing courses) SUR 3463, SUR 3463L

*Legal Aspects of Surveying*³ (3 credits, existing course) SUR 4403

¹ SUR 2104C, Fundamentals of Surveying, may be substituted

² Requires MAC 2311, Calculus with Analytic Geometry 1, as a prerequisite

³ Prerequisite: SUR 2101/SUR 2101L, Plane Surveying with Lab

The certificate program in Geomatics Engineering is intended to be available to all students, full time or part time, enrolled in a major or not, and result in a Certificate of Geomatics Engineering. This includes the general public, who may not be enrolled at any post-secondary institution. The only requirement is the calculus course that is the prerequisite for Plane Surveying. The Certificate is expected to be a credential that may be valuable to those working in occupations related to Geomatics Engineering, or who work with information provided by surveyors and mappers.

2. New Minor in Geomatics Engineering

The Geomatics Engineering program is proposing a 19-credit Minor in Geomatics Engineering. The proposed minor is intended to be available to all full-time students of FAU pursuing a declared major, provided all prerequisites are met, as detailed in the memo below. **The UUPC approved the proposal.**

Minor in Geomatics Engineering

Students minoring in Geomatics Engineering will complete a minimum of 19 credits with a grade of “C” or better in each course. Of the 19 credits, a minimum of 15 must be earned at FAU. Selected courses must be checked for the proper prerequisites.

Required courses (to be taken first) — 7 credits:

*Introduction to Geomatics Engineering*¹ (3 credits, existing course) SUR 2034

*Plane Surveying*² with Lab (3-credit lecture, 1-credit lab, existing courses) SUR 2101, SUR 2101L

With an additional 12 or more credits from the list below:

*Photogrammetry with Lab*³ (2-credit lecture, 1-credit lab, existing courses) SUR 3331, SUR 3331L

*Surveying Data Analysis*⁴ (3 credits, existing course) SUR 3643

*Automated Surveying and Mapping with Lab*³ (3-credit lecture, 1-credit lab, existing courses) SUR 3141, SUR 3141L

*Land Subdivision and Platting with Lab*³ (2-credit lecture, 1-credit lab, existing courses) SUR 3463, SUR 3463L

*Engineering and Construction Surveying with Lab*⁵ (3-credit lecture, 1-credit lab, existing courses) SUR 3205, SUR 3205L

*Introduction to Geodesy*⁵ (3 credits, existing course) SUR 3530

Positioning with GPS with Lab^{5,6} (2-credit lecture, 1-credit lab, existing courses) SUR 4531, SUR 4531L

*Legal Aspects of Surveying*³ (3 credits, existing course) SUR 4403

¹ SUR 2104C, Fundamentals of Surveying, may be substituted

² Requires MAC 2311, Calculus with Analytical Geometry 1, as a prerequisite

³ Requires SUR 2101/SUR 2101L, Plane Surveying with Lab, as a prerequisite

⁴ Requires SUR 2101/SUR 2101L, Plane Surveying with Lab, and MAP 3305, Engineering Mathematics 1, as prerequisites, and STA 4032, Probability and Statistics for Engineers, as a corequisite

⁵ Requires SUR 3643, Surveying Data Analysis, as a prerequisite

⁶ Requires SUR 3530, Introduction to Geodesy, as a prerequisite

The Minor in Geomatics Engineering is intended to be available to all full-time students of Florida Atlantic University pursuing a declared major, provided all prerequisites are met. This minor provides graduates of a bachelor's degree program with an additional credential to their list of knowledge and skills. It is anticipated that this minor, plus an additional 6 credits of surveying and mapping-related coursework, will meet the post-secondary educational requirements for admission to the licensing examination for Professional Surveyor and Mapper in the State of Florida. This minor is expected to be attractive to students with majors such as Civil Engineering and in the Geosciences.

3. Terminate B.S.N./M.S. Combined Degree Program

The College of Nursing is proposing terminating its B.S.N./M.S. dual-degree program, as curricular changes related to accreditation have reduced the need for the program, an external reviewer has recommended the College reduce programs and there have been administrative difficulties tracking and placing current students. The College is proposing suspending admission beginning in spring 2013 and ending the program upon current students' graduation. **The UUPC approved the proposal.**

4. Revisions to GIS Certificate and termination of the Advanced GIS Certificate

The Department of Geosciences is proposing removing the elective element of its GIS Certificate and delineating all required courses, as well as eliminating its Advanced GIS Certificate with the intent of proposing a graduate-level certificate, all detailed in the memo below. **The UUPC approved the change and termination.**

FROM: Russ Ivy, Chair, Geosciences

RE: GIS Certificate and Advanced GIS Certificate

The Department of Geosciences faculty has voted to:

1) Make changes to the GIS Certificate requirements. The certificate program currently has three courses that are required with a fourth course coming from a menu of four courses. We have found that students who do not choose GIS 4037C as their fourth course are sometimes disadvantaged in developing rudimentary skills in GIScience. Therefore, we are streamlining the program to make the fourth course required (GIS 4037C) instead of from a menu. This will not create bottlenecks in finishing the certificate program, as GIS 4037C is offered every semester.

2) Drop the current Advanced GIS Certificate in lieu of the development of a graduate-level GIS certificate (under development).