

## 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 are:

<b>Required courses (to be taken first) — 7 credits:</b>	
<i>Introduction to Geomatics Engineering</i> <sup>1</sup> (3 credits, existing course)	SUR 2034
<i>Plane Surveying</i> <sup>2</sup> w/Lab (3 credits lecture, 1 credit lab, existing courses)	SUR 2101, SUR 2101L

<b>With an additional 12 or more credits from the list below:</b>	
<i>Photogrammetry w/Lab</i> <sup>3</sup> (2 credits lecture, 1 credit lab, existing courses)	SUR 3331, SUR3331L
<i>Surveying Data Analysis</i> <sup>4</sup> (3 credits, existing course)	SUR 3643
<i>Automated Surveying and Mapping w/Lab</i> <sup>3</sup> (3 credits lecture, 1 credit lab, existing courses)	SUR 3141, SUR 3141L
<i>Land Subdivision and Platting w/Lab</i> <sup>3</sup> (2 credits lecture, 1 credit lab, existing courses)	SUR 3463, SUR 3463L
<i>Engineering and Construction Surveying w/Lab</i> <sup>5</sup> (3 credits lecture, 1 credit lab, existing courses)	SUR 3205, SUR 3205L
<i>Introduction to Geodesy</i> <sup>5</sup> (3 credits, existing course)	SUR 3530
<i>Positioning with GPS w/Lab</i> <sup>5,6</sup> (2 credits lecture, 1 credit lab, existing courses)	SUR 4531, SUR 4531L
<i>Legal Aspects of Surveying</i> <sup>3</sup> (3 credits, existing course)	SUR 4403

<sup>1</sup> SUR 2104C Fundamentals of Surveying may be substituted

<sup>2</sup> Requires MAC 2311 Calculus with Analytical Geometry 1 as a prerequisite

<sup>3</sup> Requires SUR 2101/SUR 2101L Plane Surveying w/Lab as a prerequisite

<sup>4</sup> Requires SUR 2101/SUR 2101L Plane Surveying w/Lab and MAP 3305 Engineering Mathematics 1 as a prerequisite, and STA 4032 Probability and Statistics for Engineers as a co-requisite

<sup>5</sup> Requires SUR 3643 Surveying Data Analysis as a prerequisite

<sup>6</sup> 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 Bachelors degree program with an additional credential to their list of knowledge and skills. It is anticipated that this Minor plus an additional 6 semester credit hours 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 having majors such as Civil Engineering and in the Geosciences.

***Approved by:***

Department Chair: \_\_\_\_\_

College Curriculum Chair: \_\_\_\_\_

College Dean: \_\_\_\_\_

UUPC Chair: \_\_\_\_\_

Provost: \_\_\_\_\_