

**Major:** Geomatics Engineering  
**College:** Engineering & Computer Science  
**Degree:** Bachelor of Science in Geomatics Engineering (BSGE)

**Limited Access Program:** No

**Contact:** Geomatics Engineering  
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The Geomatics Engineering curriculum has been designed to meet all requirements for accreditation by the Accreditation Board for Engineering and Technology (ABET). Graduation from an ABET accredited program is the universally accepted education credential required for professional registration. The proposed implementation date is July 1, 2007, with the first students accepted for the Fall 2007 semester.

With its focus upon math, science, general education, and other preparatory work, the first two years of the Geomatics Engineering curriculum are much the same as those for other engineering programs in the College of Engineering and Computer Science. Through an existing state articulation agreement for engineering, almost all of this coursework for the first two years can be completed at any Florida community college.

See the "[Course Implementation Schedule](#)" to find out when specific upper level classes will be offered at FAU.

**Sample 4-Year Program of Study for  
 Bachelor of Science in Geomatics Engineering**

<b>First Year</b>		
<b>First Semester (14 Total Credits)</b>		
College Writing I	ENC 1101	3
General Chemistry I	CHM 2045	3
General Chemistry I Lab	CHM 2045L	1
Calculus for Engineers 1	MAC 2253	4
Fundamentals of Engineering	ENG 1002	3
<b>Second Semester (14 Total Credits)</b>		
College Writing II	ENC 1102	3
Physics for Engineers I	PHY 2043	3
General Physics I Lab	PHY 2048L	1
Calculus for Engineers 2	MAC 2254	4
Social Science/Humanities (1)	-	3
<b>Second Year</b>		
<b>First Semester (14 Total Credits)</b>		
Physics for Engineers II	PHY 2044	3
General Physics II Lab	PHY 2049L	1
Calculus w/ Analytic Geometry III	MAC 2313	4
Intro. to Geomatics Engineering	SUR 2034	3
Social Science/Humanities (2)	-	3
<b>Second Semester (16 Total Credits)</b>		
Intro. to Maps and GIS w/Lab	GIS 3015C	3
Probability and Statistics for Engineers	STA 4032	3
Plane Surveying w/Lab	SUR 2120L	4
Public Speaking	SPC 2601	3
Social Science/Humanities (3)	-	3

**Third Year****First Semester (16 Total Credits)**

Surveying Data Analysis	SUR 3643C	3
Photogrammetry w/Lab	SUR 3331L	3
Automated Surveying and Mapping	SUR 3141C	4
Engineering Geology	GLY 4830	3
Social Science/Humanities (4)	-	3

**Second Semester (16 Total Credits)**

Principles of Geographic Information Systems	GIS 4043C	3
Introduction to Geodesy	SUR 3540	3
Engineering and Construction Surveying w/Lab	SUR 3205L	3
Land Subdivision and Platting w/Lab	SUR 3462L	4
Social Science/Humanities (5)	-	3

**Fourth Year****First Semester (15 Total Credits)**

Geomatics Engineering Design I	SUR 4670	3
Remote Sensing of the Environment	GIS 4035C	3
Legal Aspects of Surveying	SUR 4403	3
Positioning with GPS w/Lab	SUR 4536L	3
Engineering Economics	EGN 4600	3

**Second Semester (15 Total Credits)**

Geomatics Engineering Design II	SUR 4672	3
Surveying Business Practices	SUR 4704	3
Social Science/Humanities (6)	-	3
Professional Elective (1)	-	3
Professional Elective (2)	-	3