

FAU Bachelor of Science in Geomatics Engineering (BSGE)

General Education Requirements		
ENC 1101	College Writing 1 (1),(2)	3
ENC 1102	College Writing 2 (1),(2)	3
SPC 2601	Public Speaking	3
	Social Sciences (1),(3),(4)	9
	Humanities (1),(3),(4)	9
	Total	27
Basic Mathematics and Sciences		
MAC 2281	Calculus for Engineers 1 (1),(5)	4
MAC 2282	Calculus for Engineers 2 (1),(5)	4
MAC 2313	Calculus with Analytic Geometry 3	4
MAP 3305	Engineering Math 1	3
STA 4032	Probability and Statistics for Engineers	3
CHM 2045	General Chemistry 1 (1)	3
CHM 2045L	General Chemistry 1 Lab (1)	1
PHY 2043	Physics for Engineers 1 (1),(6)	3
PHY 2048L	General Physics 1 Lab	1
PHY 2044	Physics for Engineers 2 (1),(6)	3
PHY 2049L	General Physics 2 Lab	1
	Total	30
Engineering Fundamentals		
EGN 1002	Fundamentals of Engineering	3
SUR 2034	Introduction to Geomatics Engineering	3
	Total	6
Professional Core		
SUR 2101	Plane Surveying	3
SUR 2101L	Plane Surveying Lab	1
GIS 3015C	Introduction to Mapping and GIS (8)	3
SUR 3643	Surveying Data Analysis	3
SUR 3331	Photogrammetry (9)	2
SUR 3331L	Photogrammetry Lab (9)	1
SUR 3141	Automated Surveying and Mapping	3
SUR 3141L	Automated Surveying and Mapping Lab	1
GIS 4043C	Principles of Geographic Information Systems (8)	3
SUR 3530	Introduction to Geodesy	3
SUR 3205	Engineering and Construction Surveying	3
SUR 3205L	Engineering and Construction Surveying Lab	1
SUR 3463	Land Subdivision and Platting	2
SUR 3463L	Land Subdivision and Platting Lab	1
SUR 4670	Geomatics Engineering Design 1	3
GIS 4035C	Remote Sensing of the Environment (8)	3
SUR 4403	Legal Aspects of Surveying	3
SUR 4531	Positioning with GPS	2
SUR 4531L	Positioning with GPS Lab	1
EGN 4613	Engineering Economics	3
SUR 4672	Geomatics Engineering Design 2	3
SUR 4302	Hydrographic Surveying	2
SUR 4302L	Hydrographic Surveying Lab	1
	Professional Electives (select 2) (10)	6
	Total	57
		120

1. Syllabus must be attached, syllabus checklist recommended, see guidelines and checklist: www.fau.edu/academics/registrars/UTUP/Origo

2. Reviewer Approved Memo and Name: _____
 Definition of a Credit Hour: www.fau.edu/provost/office/Department_Credit_Hour_Memo_2012.pdf

3. WAC approved (attach if necessary)

4. Gen. Ed. approved (attach if necessary)

5. Consent of affected departments (attach if necessary)

Date: 2/25/13
 2/25/13
 2/24/2013
 3/29/13
 3/27/13

Approved by: _____
 Department Chair: _____
 College Curriculum Chair: _____
 College Dean: _____
 UUPC Chair: _____
 Undergraduate Studies Dean: _____
 UFS President: _____
 Provost: _____

Replaces SUR 4430 Surveying Business Practices (3)

- Notes:
- (1) Contributes to University Core Curriculum requirements.
 - (2) Contributes to Writing Across Curriculum (Gordon Rule) writing requirement.
 - (3) Social Sciences/Humanities courses, totaling 6 or more credits, must be selected to satisfy Writing Across Curriculum (Gordon Rule) writing requirements.
 - (4) Two or more of the selections must have a global perspective (contact the department for a list of acceptable courses).
 - (5) Contributes to Gordon Rule mathematics requirement.
 - (6) PHY 2048 and PHY 2049 (4 credits each) are acceptable substitutes, but only 6 credits will apply toward the degree.
 - (7) All professional core courses contain a communications component (writing or speaking).
 - (8) Includes a 1-credit laboratory.
 - (9) GIS 4023 is an acceptable substitute.
 - (10) See advisor for the list of approved professional electives.