Bachelor of Science in Geomatics Engineering

Select TWO of the following:
- CCE4031 Construction Project Management (3)
- SUR3384 Thermal Infrared Remote Sensing and Applications (3)
- TTE4105 Transportation Operations & Logistics Mgmt (3)
- ENT4024 Entrepreneurship (3)
- GEO4010 Transportation and Spatial Organization (3)
- GIS4037C Digital Image Analysis (3)
- GIS4048C Application in GIS (3)
- GIS4102C Programming in GIS (3)
- SUR4302L Hydrographic Surveying (3)
- GIS4822 Hydrogeology (3)
- GLY4830 Engineering Geology (3)
- GLY4832C Intro to Hydrogeology Modeling and Aquifer Test (3)

Technical Elective Course Options

Select TWO of the following:
- CCE4031 Construction Project Management (3)
- SUR3384 Thermal Infrared Remote Sensing and Applications (3)
- TTE4105 Transportation Operations & Logistics Mgmt (3)
- ENT4024 Entrepreneurship (3)
- GEO4010 Transportation and Spatial Organization (3)
- GIS4037C Digital Image Analysis (3)
- GIS4048C Application in GIS (3)
- GIS4102C Programming in GIS (3)
- SUR4302L Hydrographic Surveying (3)
- GIS4822 Hydrogeology (3)
- GLY4830 Engineering Geology (3)
- GLY4832C Intro to Hydrogeology Modeling and Aquifer Test (3)

Requirements to Declare Geomatics Engin. Major
Must obtain a minimum grade of "C" and a GPA of 2.0 or greater in SUR2101/L and MAC1114
Grade of C or better required in all coursework

4 year & Transfer students:
At least 120 credits
At least 45 credits in the Upper-Division
Transfer students:
At least 32 credits from FAU

This flowchart is reviewed periodically and is subject to change as new requirements become necessary to educate geomatics engineers. The information is intended to inform and is not a replacement for a degree audit conducted with an academic advisor.

REVISED 9/16
FLORIDA ATLANTIC UNIVERSITY – INTELLECTUAL FOUNDATION PROGRAM 2015 – 2016

All courses are three (3) credits unless otherwise indicated. Course selections should be made in consultation with an academic advisor.

PRE-PROFESSIONAL ENGINEERING PROGRAM (2015-2016)

College of Engineering and Computer Science

**FOUNDATIONS OF WRITTEN COMMUNICATION**

(6 credit hours required – Writing Across the Curriculum - WAC)

Grade of “C” or higher is required in each course

**ENC 1101** ….. College Writing I (REQUIRED)

**ENC 1102** ….. College Writing II +

**THE FOLLOWING COURSES BELOW MAY BE SUBSTITUTED FOR ENC 1102:**

English Department

ENC 1930+ ….. University Honors Seminar in Writing (Permit Only)

ENC 1939+ ….. Special Topic: College Writing

ENC 2452+ ….. Honors Composition for Science

Anthropology Department

ANT 1471+ …. Cultural Difference in a Globalized Society

History Department

HIS 2050+ ….. Writing History: The American Revolution

Note: Students must take four Writing-Across-the-Curriculum (WAC) courses, two of which must be taken from Foundations of Written Communication.

**FOUNDATIONS OF SCIENCE & THE NATURAL WORLD**

(6 credit hours required - One of the courses must have a lab)

Student must take two of the following courses, one must be from group A.

The second course may be from group A or group B.

Grade of “C” or higher is required

**Group A**

Biology Department

**BSC 1010 & L** …. Biological Principles (4 credits including Lab & Dis)

Chemistry Department

**CHM 2045 & L** …. General Chemistry 1 (4 cr. w/Lab) #

Physics Department

**PHY 2048 & L** …. General Physics 1 (5 cr. w/ Lab) ** (REQUIRED)

**Group B**

Geosciences Department

**GLY 2010C** …. Physical Geology (4 cr. including Lab)

Physics Department

**PHY 2049 & L** …. General Physics 2 (5 cr. w/ Lab) (REQUIRED)

**FOUNDATIONS OF HUMANITIES**

(6 credit hours required)

Student must take two of the following courses, one must be from group A.

The second course may be from group A or group B.

**Group A**

Visual Art & Art History Department

**ARH 2000** ….. Art Appreciation (P/F)

Music Department

**MUL 2010** ….. Music Appreciation

Philosophy Department

**PHI 2010 & D** …. Introduction to Philosophy (WAC) ++

Theatre & Dance Department

**THE 2000** ….. Theatre Appreciation

**Group B**

Architecture Department

**ARC 2208** ….. Culture & Architecture

Theatre & Dance Department

**DAN 2100** ….. Appreciation of Dance

School of Communication & Multimedia Studies

**FIL 2000 & D** ….. Film Appreciation

Languages, Linguistics, & Comparative Literature Department

**LIT 2100** ….. Introduction to World Literature

English Department

**LIT 2100** ….. Interpretation of Fiction (WAC) ++

**LIT 2300** ….. Interpretation of Poetry (WAC) ++

**LIT 2400** ….. Interpretation of Drama (WAC) ++

**LIT 2070** ….. Interpretation of Creative Nonfiction (WAC) ++

**FOUNDATIONS OF MATHEMATICS & QUANTITATIVE REASONING**

(6 credit hours required – Grade of “C” or higher is required)

Student must take two of the following courses, one must be from group A.

The second course may be from group A or group B.

**PRETEST IS REQUIRED BEFORE TAKING YOUR FIRST MATH COURSE**

**Group A**

**MAC 2311** …. Calc. w/Analytic Geometry 1 (4 credits) (REQUIRED)

**Group B**

**MAC 2312** …. Calc. w/Analytic Geometry 2 (4 credits) (REQUIRED)

**FOUNDATIONS OF SOCIETY & HUMAN BEHAVIOR**

(6 credit hours required)

Student must take two of the following courses, one must be from group A.

The second course may be from group A or group B.

**Group A**

History Department

**AMH 2010** …. United States History Since 1877 (P/F)

Anthropology Department

**ANT 2000** …. Introduction to Anthropology

Economics Department

**ECO 2013** …. Macroeconomic Principles §

Political Science Department

**POS 2041** …. Government of the United States

Psychology Department

**PSY 1012** …. Introduction to Psychology

Sociology Department

**SYG 1000** …. Sociological Perspectives

**Group B**

History Department

**AMH 2020** …. United States History to 1877 (P/F)

Economics Department

**ECO 2023** …. Microeconomic Principles §

**ECP 2002** …. Contemporary Economic Issues

Exceptional Student Education Department

**EEX 2091** …. Disability and Society

Geosciences Department

**EVR 2017** …. Environment and Society

Public Administration Department

**PAD 2258** …. Changing Environment of Soc., Bus., & Gov’t

Sociology Department

**SYG 2790** …. Race, Class, Gender, and Sexuality

**SYG 2010** …. Social Problems

Urban & Regional Planning Department

**URP 2051** …. Designing the City

**FOUNDATIONS IN GLOBAL CITIZENSHIP**

(6 credit hours required)

Student must choose two (2) courses from among the following:

Anthropology Department

**ANT 2410** …. Culture and Society

Curriculum, Culture & Education Department

**EDF 2854** …. Educated Citizen in Global Context

Geosciences Department

**GEO 2000** …. World Geography

Political Science Department

**INR 2002** …. Introduction to World Politics

Languages, Linguistics, & Comparative Literature Department

**LAS 2000** …. Intro to Caribbean & Latin American Studies

**LIN 2607** …. Global Perspectives on Language (online course)

Sociology Department

**SYG 2450** …. Global Society

Social Work Department

**SOW 1005** …. Global Perspectives of Social Services

History Department

**WOH 2012 & D** …. History of Civilization 1 (WAC) ++

**WOH 2022** ….. History of Civilization 2