

Florida Atlantic University – PENG Geomatics Engineering 2025-2026

Students must take 2 of the following courses, 1 must be from group A. The second course may be in group A or group B.

I. Communication

(Group A)

ENC 1101 College Writing I **(WAC) (Required)**
Or a course with an ENC prefix for ENC 1101 is a direct prerequisite

(Group B)

ENC 1102 College Writing II **(WAC)** +
 HIS 2050 Writing History **(WAC)** +
 SPC 2608 Public Speaking (non-WAC)

II. Humanities

(Group A)

ARH 2000 Art Appreciation
 HUM 2020 Introduction to Humanities
 HUM 2020 Honors Introduction to Humanities §
 LIT 2000 Introduction to Literature
 LIT 2000 Honors Introduction to Literature §
 MUL 2010 Music Appreciation
 PHI 2010 & D Introduction to Philosophy **(WAC)** ++
 THE 2000 Theatre Appreciation

(Group B)

ARC 2208 Culture & Architecture
 ARH 2050 History of Art 1
 ARH 2051 History of Art 2
 DAN 2100 Appreciation of Dance
 FIL 2000 & D Film Appreciation
 FIL 2000 Honors Film Appreciation §
 LIN 2607 Perspectives on Language
 LIT 2010 Interpretation of Fiction **(WAC)** ++
 LIT 2030 Interpretation of Poetry **(WAC)** ++
 LIT 2040 Interpretation of Drama **(WAC)** ++
 LIT 2070 Inter of Creative Nonfiction **(WAC)** ++
 LIT 2100 Introduction to World Literature
 MUH 2121 World Music
 SPT 2530 Hispanic Culture and Civilization
 WOH 2012 & D History of Civilization 1 **(WAC)** ++
 WOH 2022 History of Civilization 2

III. Mathematics

(Group A)

MAC 1105 College Algebra
 MAC 2311 Calc. w/Analytic Geom. 1 (4 cr.) **(Required)**
 STA 2023 Introductory Statistics **(Required)**

Or any mathematics course for which one of the above general education core course options in Mathematics is the direct prerequisite.

(Group B)

MAC 2210 Intro Calculus w/App. (4 cr.) **(see note)**
 MAC 2312 Calc. w/Analytic Geom. 2 (4 cr.) **(see note)**

NOTE: Must take either MAC 2210 or MAC 2312

IV. Natural Science

(Group A) & (Group B)

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

And must also choose ONE from Science 1 Group:

CHM 2045 & L General Chemistry 1 (4 cr. w/Lab)
 GLY 2010C & D Phys. Geol/Evolution of the Earth (4 cr. w/Lab)

And must also choose ONE from Science 2 Group:

ANT 2511 & L Intro to Biological Anthropology (4 cr. w/ Lab)
 BSC 1010 & L Biological Principles (4 cr. w/Lab)
 BSC 1011 & L Biodiversity (4 cr. w/Lab)
 BSC 2085 & L Anatomy & Physiology 1 (4 cr. w/Lab)
 CHM 2045 & L General Chemistry 1 (4 cr. w/Lab) **(see note)**
 GLY 2010C & D Phys. Geol/Evol. of the Earth (4 cr.) **(see note)**
 PHY 2053 & L College Physics 1 (5 cr. w/Lab)

NOTE: May not be used to satisfy Science 2 Group if used to satisfy Science 1 Group

V. Social Sciences

(Group A)

AMH 2010 & D United States History to 1877 ♦
 AMH 2020 & D United States History Since 1877 ♦
 ANT 2000 & D Introduction to Anthropology **(WAC)**
 ECO 2013 Macroeconomic Principles
 POS 2041 Government of the United States ♦
 PSY 1012 Introduction to Psychology

(Group B)

CCJ 2002 Law, Crime & the Criminal Justice System
 ECO 2023 Microeconomic Principles
 EME 2620 Digital Literacy
 EVR 1110 Human Dimensions of Environmental Change
 EVR 2017 Environment and Society
 GEA 2000 World Geography
 INR 2002 Introduction to World Politics
 LIN 2001 Introduction to Language (online)
 PAD 2081 Risk & Resilience to Natural Hazards
 POT 2000 Global Political Theory
 SOW 1005 Perspectives of Social Services
 SYG 1000 Sociological Perspectives
 URP 2051 Designing the City

VI. Additional Enrichment

Will be satisfied by additional Group 1 and Group 2 Natural Science requirements.

LEGEND

- + ENC 1101 is a prerequisite
- ++ Two Communication courses are required before taking this course.
- § Reserved for Wilkes Honors College & University Honors Program students only.
- ♦ Please visit FAU's website regarding the Civic Literacy Requirements.
(<https://www.fau.edu/ugstudies/civic-literacy-requirement/>)
- ‡ Co-requisite of MAC 1105 or a prerequisite of CHM 1025.
- * MAC 2311 is a prerequisite for this course.
- (R) – Recommended
- (SR) – Strongly Recommended
- # The following courses are not offered at FAU but will fulfill this requirement if transferred from another school.
- WAC** - Writing Across the Curriculum course – minimum grade of “C” required. Students must take four WAC courses.

Important Policies for Geomatics Engineering Majors

(A) Pre-Professional Engineering Program

Incoming first-year and transfer students in engineering bachelor's programs will start as pre-engineering students. To be admitted to their chosen major within the College of Engineering and Computer Science, students must:

- (1) Meet University admission requirements.
- (2) Achieve a minimum grade of “C” in each listed core course.
- (3) Have a maximum of two attempts for each listed course. Failure to pass on the second attempt, including withdrawals, may result in denial of admission to the major.

Pre-Professional Program Courses: MAC 2311 & PHY 2048 & L

(B) Math Policies & Math Boot Camp

Students who do not successfully pass a math course on their first attempt (including withdrawals) must complete Boot Camp before enrolling in 2nd attempt. Math Boot Camp website: <https://www.fau.edu/ugstudies/math-boot-camp/>. Failing or withdrawing from a second attempt of a math course may result in a mandatory major change outside of the college.

For additional program requirements, contact the Division of Engineering & CS Student Services & Advising (DESSA)

Phone: 561-297-2780 Email: cegeadvising@fau.edu

Additional Major Requirements for First- and Second Year Students (ALL Required courses)

EGN 1002 & D	Fundamentals of Engineering
CGN 2327	Computer Aided Design
GEO 2200C	Intro to Physical Geology
SUR 3103 & Lab	Geomatics Lab

Computer Programming Elective - Speak with an academic advisor about options.