

Florida Atlantic University – PENG Biomedical 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)**
Or any mathematics course for which one of the above general education core course options in Mathematics is the direct prerequisite.

(Group B)

MAC 1147 Precalculus Algebra & Trigonometry (4 cr.)
 MAC 2210 Intro Calculus w/App. (4 cr.) **(Permit Only)**
 MAC 2312 Calc. w/Analytic Geom. 2 (4 cr.) **(Required)**

IV. Natural Science **(ALL Required Below)**

(Group A) & (Group B)

BSC 1010 & L Biological Principles (4 cr. w/Lab)
 BSC 2085 & L Anatomy & Phys. 1 (4 cr. w/Lab)
 CHM 2045 & L General Chemistry 1 (4 cr. w/Lab) ‡
 PHY 2048 & L Gen. Physics for EG 1 (4-5 cr. w/Lab) *

Or any course in the Natural Science for which one of the above general education core course options in Natural Science is the direct prerequisite. NOTE: at least one course must have a lab from Group A or B.

***** Please see additional science requirements that vary by major track on page 2 *****

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 **(Required)**

(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 the additional Natural Science required courses.

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.
- ** MAC 2233 is a prerequisite for this course. If a lab is needed, then take General Physics 1 lab (PHY 2048L).
- (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.

Biomedical Engineering Important Policies and Additional Requirements for First- and Second-Year Students

Biomaterials & Tissues Engineering Track

EGN 1111C	Engineering Graphics
COP 3035C	Intro to Programming in Python
BSC 1011 & L	Biodiversity (4 cr. w/ lab)
CHM 2046 & L	General Chemistry 2 (4 cr. w/ lab)
PHY 2044 & PHY 2049L	Physics for Engineers 2 (4 cr. w/ lab)
CHM 2210	Organic Chemistry 1
CHM 2211	Organic Chemistry 2
MAP 2302	Differential Equations 1

Bio-Robotics Track

COP 3035C	Intro to Programming in Python
EGN 1111C	Engineering Graphics
PHY 2049 & L	General Physics 2 (5 cr. w/ lab)
MAP 2302	Differential Equations 1

Smart Health Track

COP 3035C	Intro to Programming in Python
EGN 1111C	Engineering Graphics
CHM 2046 & L	General Chemistry 2 (4 cr. w/ lab)
PHY 2044 & PHY 2049L	Physics for Engineers 2 (4 cr. w/ lab)
MAP 2302	Differential Equations 1

Important Policies for Biomedical Engineering Majors

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: engineering-services@fau.edu