**Florida Atlantic University – PENG Biomedical Engineering 2026-2027**

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)** |

***Students must complete ENC 1101 and ENC 1102 (or one of the approved substitutes for ENC 1102) with a grade of "C" or higher in each course.***

(Group B)

| | |
|---|---|
| ENC 1102 | College Writing II **(WAC)** + |
| ENC 2135 | Research and the Writing Process **(WAC)** + Ω |
| HIS 2050 | Writing History **(WAC)** + |
| SPC 2608 | Public Speaking (non-WAC) **non-substitute** |

## II. Humanities

(Group A)

| | |
|---|---|
| ARH 2000 | Art Appreciation |
| HUM 2020 | Introduction to Humanities |
| LIT 2000 | Introduction to Literature **(WAC)** |
| 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 |
| 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 | Interp. 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 **(Recommended)** |

(Group B)

| | |
|---|---|
| ANT 2100 | Introduction to Archaeology Ω |
| 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 |
| SYO 2101 | Families in the United States Ω |
| URP 2051 | Designing the City |

## VI. Additional Enrichment

Will be satisfied by the additional Natural Science required courses.

**For additional program requirements, contact the Center for Advising and Student Engagement (CASE)**

Phone: 561-297-2780

Email: engineering-advising@fau.edu

Website: https://www.fau.edu/engineering/case/

**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.
**Ω** Offered starting Fall 2026.
**◊** 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 1002 & Discussion | Fundamentals of Engineering |
| 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) |
| CHM 2210 | Organic Chemistry 1 |
| CHM 2211 | Organic Chemistry 2 |
| MAP 2302 | Differential Equations 1 |
| **OR** | |
| MAP 3305 | Engineering Mathematics 1 |

| | |
|---|---|
| **Bio-Robotics Track** | |
| EGN 1002 & Discussion | Fundamentals of Engineering |
| 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 |
| **OR** | |
| MAP 3305 | Engineering Mathematics 1 |

| | |
|---|---|
| **Smart Health Track** | |
| EGN 1002 & Discussion | Fundamentals of Engineering |
| 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 |
| **OR** | |
| MAP 3305 | Engineering Mathematics 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 the second attempt. Math Boot Camp website: https://www.fau.edu/ugstudies/math-boot-camp/. Failing or withdrawing from a second attempt at a math course may result in a mandatory major change outside of the college.