

Florida Atlantic University - Mathematics 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)**
 MGF 1130 Mathematical Thinking in Context 1
 STA 2023 Introductory Statistics

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

(Group B)

COP 1031C Comp. Prog. & Data Literacy for Everyone
 (For Non-College Engineering & Computer Science majors)
 MAC 1114 Trigonometry #
 MAC 1140 Precalculus Algebra #
 MAC 1147 Precalculus Algebra & Trigonometry (4 cr.)
 MAC 2210 Intro Calculus w/App. (4 cr.) **(Permit Only)**
 MAC 2233 Methods of Calculus
 MAC 2312 Calc. w/Analytic Geom. 2 (4 cr.) **(Required)**
 MAP 2491 Mathematics for Biological Sciences 1
 MGF 1131 Mathematical Thinking in Context 2
 PHI 2102 Logic

IV. Natural Science

(Group A)

AST 2002 Introduction to Astronomy
 BSC 1005 & L Life Science (3 cr. w/Lab)
 CHM 1020C Contemporary Chemical Issues
 ESC 2000 The Blue Planet (online)
 EVR 1001 Environmental Science and Sustainability
 GLY 2010C & D Phys. Geol/Evolution of the Earth (4 cr. w/Lab)
 OCE 2001 Introduction to Oceanography #

***** For Science Majors Below *****

BSC 1010 & L Biological Principles (4 cr. w/Lab)
 BSC 2085 & L Anatomy & Physiology 1 (4 cr. w/Lab)
 CHM 2045 & L General Chemistry 1 (4 cr. w/Lab) ‡
 PHY 2048 & L General Physics 1 (5 cr. w/Lab) *
 PHY 2053 & L College Physics 1 (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.

(Group B)

ANT 2511 & L Intro to Biological Anthropology (4 cr. w/ Lab)
 ETG 2831 Nature: Inter. of Sci., Eng., & the Humanities
 GLY 2100 History of Earth and Life
 IDS 2382 Human Mission to Mars
 MET 2010 Introduction to Weather and Climate
 PSC 2121 Physical Science

***** For Science Majors Below *****

BSC 1011 & L Biodiversity (4 cr. w/Lab)
 CHM 2032 & L Chemistry for the Health Sci. (4 credits w/Lab)

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

Choose 6 credits from Humanities, Social Science, or Natural Science

(1) _____ (2) _____

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.

GENERAL EDUCATION PROGRAM FOR STUDENTS

NOTE: Honors Seminars SHALL BE ACCEPTED AS MEETING THE WAC/GRW REQUIREMENT. See the University Advising Services Office for details.

FOREIGN LANGUAGE (4 - 8 credits, 1 or more courses in the same language)- **Required for Major.**

(0 - 8 credits, 1 or more courses in the same language) – Students with more than one year of a foreign language in high school should enroll in the second half of the beginners’ foreign language class (ARA/CHI/FRE/GER/HBR/ITA/JPN/LAT/SPN 1121) or a higher-level course. Proficiency in a first-level course can be earned by successfully completing a second-level course. For questions related to this requirement, consult an academic advisor. CLEP exam credits meet this requirement: see the catalog. **NOTE:** Native Speakers of a foreign language must consult the Languages, Linguistics, and Comparative Literature Department regarding this requirement.

NOTE: See the catalog for specific requirements, course descriptions, and additional information. The requirements for some core curriculum & other courses may be satisfied by passing the appropriate AP or CLEP exam – check with your advisor and college. Students who enter FAU with less than 60 credit hours must complete 9 credit hours of summer coursework either at FAU or another State University System Institution. The Department of Mathematical Sciences accepts scores for Calculus AB and Calculus BC.

The Department of Mathematical Sciences has the following requirements:

1. At least 25 credits of 3000 level or above (upper division) BS Mathematics core and elective requirements must be completed at FAU
2. The math department must approve any coursework in the major field transferred from another institution
3. Any coursework in the major field transferred from another institution must be approved by the Math Department
4. The maximum amount of credit that may be earned through co-op is 10 credits; the Math Dept. does not allow these credits to count as major courses
5. The Mathematics Department requires a minimum 2.2 overall GPA for (BA) in all Mathematics courses taken at FAU
6. The Mathematics Department requires a minimum 2.5 overall GPA for (BS) in all Mathematics courses taken at FAU

MAJOR REQUIREMENTS

B.A. Mathematics

MAC 2311	Calc. w/Analytic Geom. 1 (4 cr.)
MAC 2312	Calc. w/Analytic Geom. 2 (4 cr.)
MAC 2313	Calc. w/Analytic Geom. 3 (4 cr.)

CREDIT SUMMARY

41 – 45 cr.	General Education with Foreign Language
40 cr.	Major Core & Math Electives
15 cr.	Upper Division Restricted Free Electives
20 – 24 cr.	Free Electives
120 credits	TOTAL (42 credits at upper division minimum)

NOTE: Numbers are based on common course selection. Please consult your advisor.

B.S. – Mathematical Biology

BSC 1010 & L	Biological Principles (4 cr. w/Lab)
BSC 1011 & L	Biodiversity (4 cr. w/Lab)
CHM 2045 & L	General Chemistry 1 (4 cr. w/Lab) ‡
CHM 2046 & L	General Chemistry 2 (4 cr. w/Lab)

MAC 2233	Methods of Calculus -- OR --
MAP 2491	Mathematics for Biological Sciences 1 -- OR --
MAC 2311	Calc. w/Analytic Geom. 1 (4 cr.)

CREDIT SUMMARY

41 – 45 cr.	General Education with Foreign Language
45 cr.	Major Core & Math Electives
11 cr.	Upper Division Restricted Free Electives
19 – 23 cr.	Free Electives
120 credits	TOTAL (42 credits at upper division minimum)

NOTE: Numbers are based on common course selection. Please consult your advisor.

B.S. – Mathematical Cryptology/Pure Mathematics/Statistics and Data Science

CHM 2045 & L	General Chemistry 1 (4 cr. w/Lab) ‡ -- OR --
PHY 2048 & L	General Physics 1 (5 cr. w/Lab) *
MAC 2311	Calc. w/Analytic Geom. 1 (4 cr.)
MAC 2312	Calc. w/Analytic Geom. 2 (4 cr.)
MAC 2313	Calc. w/Analytic Geom. 3 (4 cr.)

CREDIT SUMMARY

41 – 45 cr.	General Education with Foreign Language
49 cr.	Major Core & Math Electives
6 cr.	Upper Division Restricted Free Electives
20 – 24 cr.	Free Electives
120 credits	TOTAL (42 credits at upper division minimum)

NOTE: Numbers are based on common course selection. Please consult your advisor.