

Florida Atlantic University – Secondary Education: Biology 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 **(Required)**
 MAC 2311 Calc. w/Analytic Geometry 1 (4 cr.) ***

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 2233 Methods of Calculus **(Required)**
 MAC 2312 Calculus with Analytic Geometry 2 (4 cr.)
 MAP 2491 Mathematics for Biological Sciences 1 ***
 PHI 2102 Logic

IV. Natural Science

(Group A)

BSC 1010 & L Biological Principles (4 cr. w/Lab) **(Required)**
 CHM 2045 & L General Chemistry 1 (4 cr. w/Lab) ‡ **(Required)**

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)

BSC 1011 & L Biodiversity (4 cr. w/Lab) **(Required)**
 PSC 2121 Physical Science **(Required)**

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 additional Natural Science 1 and Natural Science 2 requirements.

(1) Science 1 (2) Science 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).
- *** Medical Biology majors must select one of these math courses.
- (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.

FOREIGN LANGUAGE (4 - 8 credits, 1 or more courses in the same language) - **REQUIRED FOR BS MAJOR ONLY**

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

NOTE: See catalog for specific requirements, course descriptions, and additional information. The requirements for some General Education (Gen Ed) courses & other courses may be satisfied by passing the appropriate AP or CLEP exam. Check with your advisor and college.

CREDIT SUMMARY

36 – 39 cr.	General Education (including additional science courses)
9 cr.	Lower-Division College Requirements
15 – 18 cr.	Free Electives (Foreign Language taken for BS count as electives)
24 cr.	Professional Education (includes 6 cr. of student teaching)
33 – 34 cr.	Secondary Biology Major Content
120 cr.	TOTAL

NOTE: To be admitted to a Teacher Education program, students must do the following:

1. Have a minimum GPA of 2.5 on a 4.0 scale on the lower division undergraduate general education component
2. Submit passing scores on all sections of the General Knowledge (GK) test to the College of Education
<https://www.fl.nesinc.com/>
3. Meet the general university requirements for admission.
4. Complete General Education Requirements or an AA Degree from a Florida State University or College.
5. Be interviewed and recommended for admission.
6. Be programmed by an assigned advisor.
7. Be approved for admission by the College of Education.

For additional information, please contact the College of Education Office for Academic and Student Services:

College of Education, Room 230

(561) 297-3570 or <https://www.fau.edu/education/students/oass/>

MAJOR COURSES, COLLEGE REQUIREMENTS and ELECTIVES

NON-MAJOR/FREE ELECTIVES (15 – 18 credits)

Courses in any college, any department, including Education, needed to meet the 120 credits required for graduation. Foreign Language will count as an elective if taken for the BS major.

LOWER DIVISION COLLEGE REQUIREMENTS (9 credits)

EDF 2005	Intro to the Teaching Profession (15 observation hours) (3 credits)
EDF 2085	Intro to Diversity for Educators (15 observation hours) (3 credits) (WAC)
EME 2040	Intro to Technology for Educators (3 credits)

PROFESSIONAL EDUCATION (24 credits)

EDF 3210	Applied Learning Theory (3 credits)
EDF 3430	Educational Measurement and Evaluation (3 credits)
TSL 4324	ESOL Strategies for Content Area Teachers (3 credits)
SCE 4360	Science: Middle and Secondary (3 credits)
RED 4335	Reading in the Content Areas (3 credits)
ESE 3940	Secondary School Effective Instruct (3 credits, 90 - hours plus security) (see NOTE 2)
SCE 4944	Student Teaching: Biology 6-12 (6 credits) Full-time internship/ Fall or Spring (Final semester)

MATHEMATICS REQUIREMENT (3 credits)

PSY 3234	Experimental Design and Statistical Inference (3 credits)
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BIOLOGY MAJOR CONTENT (42 credits)

BSC 1011 & L	Biodiversity and Lab (4 credits)
BSC 1010 & L	Biological Principles and Lab (4 credits)
CHM 2045 & L	General Chemistry I and Lab (4 credits)
CHM 2046 & L	General Chemistry II and Lab (4 credits)
CHM 2210	Organic Chemistry I (3 credits)
PSC 2121	Physical Science (3 credits)
MAC 2233	Methods of Calculus (3 credits)
OCE 3008	Oceanography (3 credits) -- OR --
OCB 4633	Marine Ecology (3 credits)
PCB 3063	Genetics (4 credits)
PCB 4043	Principles of Ecology (3 credits) (see NOTE 1)
MCB 3020 & L	General Microbiology and Lab (4 cr.) -- OR --
PCB 4023	Molecular & Cell Biology (3 cr.)
PCB 4273 & L	Comparative Animal Physiology and Lab (4 credits) (see NOTE 1) -- OR --
BOT 4503 & L	Principles of Plant Physiology and Lab (4 credits)

APPROVED SCIENCE ELECTIVES (6 credits, including 3 credits upper division)

BSC 2085 & L	Anatomy & Physiology I (4 cr.)
BSC 2086 & L	Anatomy & Physiology I (4 cr.)
EVR 2017	Environment & Society (3 cr.)
ZOO 2203 & L	Invertebrate Zoology w/Lab (5 cr.)
PCB 3352	Issues in Human Ecology (3 cr.)
BOT 3223 & L	Vascular Plant Anatomy (4 cr.)

BOT 4404 & L	Marine Botany (4 cr.)
MCB 4603	Microbial Biology (Davie campus) (3 cr.)
OCB 4043 & L	Marine Biology + Field Studies & Lab (4 cr.)
ZOO 4690 & L	Comparative Vertebrate Morphogenesis (5 cr.)
BCH 3033	Biochemistry I (3 cr.)
CHM 2211 & L	Organic Chemistry II & Lab (5 cr.)

NOTE 1: See Catalog for possible prerequisites. Permission of instructor required.

NOTE2: Must be programmed and taken fall/spring semester prior to student teaching.

IMPORTANT NOTES:

Students registered in Education courses must purchase "Live Text" which is an online tool that will be used to track individual student competency mastery (CAs) in initial certification programs. For detailed information, please visit:

<https://www.fau.edu/education/students/livetext/students/>.

Field experience is a required component of some Education courses. All students requiring a field experience placement must have evidence of current security clearance. For detailed information, please visit:

<https://www.fau.edu/education/students/oass/fieldexperience/>.