Florida Atlantic University – Secondary Education: Biology 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 **(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)

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 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.
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).
******* 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 the 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)**
6 cr.	**Lower-Division College Requirements**
18 – 21 cr.	**Free Electives (Foreign Language taken for BS counts 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 programmed by an assigned advisor.
6. 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
https://www.fau.edu/education/students/oass/

Florida Atlantic University – Secondary Education: Biology 2026-2027

MAJOR COURSES, COLLEGE REQUIREMENTS, and ELECTIVES

NON-MAJOR/FREE ELECTIVES (18 – 21 credits)
Courses in any college, any department, including Education, are 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 (6 credits)

EDF 2005	Intro to the Teaching Profession **(15 observation hours)** (3 credits) **(WAC – starting Fall 2026)**
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)

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 the Catalog for possible prerequisites. Permission of the 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/.