FIU Arts, Sciences & Education

School of Environment, Arts and Society

Bachelor of Arts in Biological Sciences

Fully Online Program

PLEASE READ COURSE DESCRIPTIONS in the UNDERGRADUATE COURSE CATALOG (catalog.fiu.edu). Most elective courses have prerequisites that must be taken BEFORE you take the elective course. To see your own progress, you can view your Panther Degree Audit from your My FIU. If you need assistance or have any questions, you are encouraged to see an advisor prior to each registration period by making an appointment via the Panther Success Network. All Science and Math courses must be completed with a grade of "C" or better to satisfy the requirements. ***The Biological Sciences BA has enrollment and completion success markers that will be used to monitor your progress in the major. In cases where students are not making good progress, a change of major may be required.***

LOWER DIVISION PROGRAM (27 cr)

Course		Credits Hours
BSC 2010 & 2010L	General Biology I and Lab	3 + 1
BSC 2011 & 2011L	General Biology II and Lab	3 + 1
CHM 1045 & 1045L	General Chemistry I and Lab	3 + 1
CHM 1046 & 1046L	General Chemistry II and Lab	3 + 1
General Physics I	**Choose 1 course:** PHY2053 – Physics without Calculus I (*Uses Algebra and Trigonometry)* PHY2048 – Physics with Calculus I (*Uses Calculus I)* **	4
Mathematics	**Choose 1 option:** MAC 1147 – Pre-Calculus Algebra and Trigonometry (4 cr) MAC 2311 – Calculus I (4 cr) *Students should take MAC 1147. Only students who have started the MAC1114/MAC1140 sequence at their previous institution may request permission from the Math Department to get into the next course in the sequence.*	4
Statistics	**Choose 1 course:** STA 2023 – Statistical Methods *Consult with your academic advisor to discuss the possibility of substituting this course with another approved Statistics course.	3

Upper Division Program (45 cr)

Course	Prerequisites (Grades of C or higher in)		Credits Hours
Required Courses (13 credits):			
BSC 3848	Science and Career Literacy	N/A *Course designed for biology majors in their junior year, this course prepares students for research, advanced coursework, and post-graduation pathways.* For students who took and successfully passed BSC 4931, this course will be used to substitute BSC 3848. Discuss with your Academic Advisor.	1
PCB 3043	Ecology	BSC2010 and BSC2011	3
PCB 3063	Genetics	BSC2010	3
PCB 4674	Evolution	PCB3043 and PCB3063	3
BCH 3034	Cellular Chemistry	BSC2010, CHM1045 and CHM1045L	3

Upper Division Biology Elective – Consult with advisor for course options (12 credits)		
Upper Division Lectures	Biology Electives Students must complete 4 lecture courses from the acceptable Upper Division Biology Electives maintained by the Biology Department. The 4 lecture courses may be chosen at the student's discretion from courses in any of the distribution areas. The following courses are not allowed as Biology BA Electives: Forensic Veterinary courses (BSC4480, BSC4481, BSC4482); Student Research Labs (BSC3915 and BSC4914); Cooperative Education credits; Biology of Women; Research Methods in Biological Sciences (BSC3910); and courses for non-science majors (BOT1010, MCB2000, BSC2023, EVR3013, OCB2000, and OCE3014). Biology students are unable to enroll in BSC 2085+L and BSC 2086+L.	12
Laboratory Requirement (2 credits)		
Upper Division Labs	**<u>Choose two</u>** upper-division labs *(Note: 2-cr. labs count for one lab)*	2
Upper Division General Electives (18)		
Consult with advisor to choose upper division (3000-4000 level) elective options that will fulfill remaining requirements *(Ex. Global Learning, 45-credit upper-division requirement, etc.)*		18

<u>Spring 2027 Online Biology Electives:</u>

Course	Course Name	Prerequisites (Grades of C or higher in)	Credits Hours
MCB 3020	General Microbiology	CHM2210, BSC2010 and BSC2011, or permission of the instructor	3
OCB 4303	Biology Marine Mammals	PCB 3043 or OCB 3043	3
PCB 3702	Intermediate Human Physiology	BSC2010 or BSC2011	3
PCB 4023	Cell Biology	PCB3063 and CHM1046	3
PCB 4234	Biology of Cancer	PCB 3063 and PCB 3043	3
PCB 4253	Developmental Biology	PCB3063 or BCH3033	3
PCB 4467C	Marine Protected Areas **This course will satisfy 1 Upper Division Biology Elective and Lab*.	BSC2010 and BSC2011	4
PCB 4414	Behavioral Ecology	PCB3043	3
PCB 4524	Molecular Biology	PCB 3063 and (BCH 3033 or CHM4304)	3

Spring 2027 Online Biology Labs:

Course	Course Name	Prerequisites (Grades of C or higher in)	Credits Hours
PCB 3043L	Ecology Lab	PCB3043 (co or pre-requisite)	1
PCB 3702L	Intermediate Human Physiology Lab	PCB3702 (co or pre-requisite)	1

Other Graduation Requirements:

University Requirements

- ☐ UCC –University Core Curriculum (Note: Transfer students with an AA degree from a Florida College System or other Florida State University are exempt from the UCC).
- ☐ FLENT/FLEX Foreign Language requirement
- ☐ Summer Enrollment: Students entering the University with fewer than 60 hours must complete 9 hours of coursework during the summer semester
- ☐ Civic Literacy Requirement
- ☐ 120 Total credit hours required

For more information on these requirements, please visit: https://transfer.fiu.edu/transfer-101/guides-resources/graduation-requirements/index.html

College of Arts, Sciences & Education Requirements

- ☐ 45 Upper Division hours required
- ☐ 9 Credit hours of courses outside the major required within the last 60 hours of enrollment

Success Markers: The Biological Sciences Department has identified important courses in the major that indicate you are on track for successful degree completion. ***In cases where students are not making good progress, a change of major may be required.***

- 30 credits- Complete MAC 1105 (or higher) with a C or better
- 30 credits- Complete CHM 1045/CHM 1045L with a C or better
- 45 credits- Enroll in MAC 1147 (or higher)
- 45 credits- Complete BSC 2010/2010L or BSC 2011/2011L with a C or better
- 45 credits- Complete CHM 1046/1046L with a C or better
- 60 credits- Enroll in PHY 2048 or PHY 2053
- 75 credits- Complete PHY 2048 or PHY 2053 with a C or better