

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.

Prerequisites (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 (<i>Uses Algebra and Trigonometry</i>) PHY2048 – Physics with Calculus II (<i>Uses Calculus I and II</i>) **	4
Mathematics	Choose 1 option: MAC 1147 – Pre-Calculus Algebra and Trigonometry (4 cr) MAC 2311 – Calculus I (4 cr) <i>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.</i>	4
Statistics	Choose 1 course: STA 2122 – Statistics for Behavioral and Social Sciences I *Consult with academic advisor to discuss the possibility of substituting this course with other approved Statistics course.	3

Upper Division Program (45 cr)

Upper Division Program (15 cr)			
Course		Prerequisites (Grades of C or higher in)	Credits Hours
Required Courses (13 credits):			
BSC 3848	Science and Career Literacy	BSC2010 and BSC2011	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: BSC 4481, BSC 4482, 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)		12
Laboratory Requirement (2 credits)			

Upper Division Labs	Choose two upper-division labs (<i>Note: 1-cr. labs count for one lab</i>)	2
Upper Division General Electives (18)		
Consult with advisor to choose upper division (3000-4000 level) elective options that will fulfill remaining requirements (<i>Ex. Global Learning, 45-credit upper-division requirement, etc.</i>)		18

Summer 2025 Online Biology Electives:

Course		Prerequisites (Grades of C or higher in)	Credits Hours
PCB 4467C	Marine Protected Areas <i>*This course will satisfy 1 Upper Division Biology Elective and Lab.</i>	BSC2010 and BSC2011	4
PCB 4663	General Human Genetics	PCB3063	3
PCB 4414	Behavioral Ecology	PCB3043	3
PCB 4232	The Biology of Acquired Immune Deficiency Syndrome	BSC2010, BSC2011, CHM1045 and CHM1046	3
PCB 4253	Developmental Biology	PCB3063 or BCH3033	3
MCB 3020	General Microbiology	CHM2210, BSC2010 and BSC2011, or permission of the instructor	3
PCB 3702	Intermediate Human Physiology	BSC2010 or BSC2011	3
PCB 4234	Biology of Cancer	PCB3063 and PCB3043	3
PCB 4023	Cell Biology	PCB3063 and CHM1046	3
BSC 4480	Introduction to Veterinary Medicolegal and Live Animal Forensic Investigations	N/A	3

Fall 2025 Online Biology Electives:

Course		Prerequisites (Grades of C or higher in)	Credits Hours
PCB 4467C	Marine Protected Areas <i>*This course will satisfy 1 Upper Division Biology Elective and Lab.</i>	BSC2010 and BSC2011	4
BSC 4303	Biogeography	PCB3043 and PCB4674	3
MCB 4503	Virology	CHM2210 and PCB3063	3
PCB 4232	The Biology of Acquired Immune Deficiency Syndrome	BSC2010, BSC2011, CHM1045 and CHM1046	3
PCB 4253	Developmental Biology	PCB3063 or BCH3033	3
MCB 3020	General Microbiology	CHM2210, BSC2010 and BSC2011, or permission of the instructor	3
PCB 3702	Intermediate Human Physiology	BSC2010 or BSC2011	3
PCB 4233	Immunology	PCB3063	3
PCB 4810	Biology of Stress	BSC 2010 & BSC 2011	3

Summer & Fall 2025 Online Biology Labs:

Course		Prerequisites (Grades of C or higher in)	Credits Hours
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BSC	3456L	Python for Biologists Lab	BSC 2010 and, BSC 2011	1
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

- | | |
|---|--|
| <input type="checkbox"/> 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).
<input type="checkbox"/> FLENT/FLEX Foreign Language requirement
<input type="checkbox"/> Summer Enrollment: Students entering the University with fewer than 60 hours must complete 9 hours of coursework during the summer semester | <input type="checkbox"/> Civic Literacy Requirement
<input type="checkbox"/> Global Learning Requirement (consider using upper division courses here)
<input type="checkbox"/> 120 Total credit hours required |
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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: 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