

Undergraduate Major Map

Catalog Year 2021
College / School Arts, Sciences & Education
Major Biological Sciences - BS
Track / Concentration Biology Education Major
Career Path Two Year Transfer

<p>Fall Term 2021 Students must pass all sections of the FTCE: General Knowledge (GK) Exam by the end of the semester that they complete 72 credits.</p> <p>After passing this exam, they must apply for Program Admission with their assigned advisor located in ZEB 210.</p> <p>In addition, students should complete Milestone #1 electronically, using their Taskstream account: https://w.taskstream.com/ts/chang28/ProgramMilestones .</p> <p>They must also maintain an average cumulative GPA of a 2.5, with a minimum of a 2.0 in all Education coursework.</p>					<p>Term GPA: 2 Term Hours: 15 Cum GPA: 2.5</p>	
Course Group	Course Required	Course Description	Credit Hours	Course Notes		
Biology Core Courses	PCB 3043	Ecology	3	Prerequisite: BSC 2010 and BSC 2011		
Biology Core Courses	PCB 3063	Genetics	3	Prerequisite: BSC 2010		
Additional Lower Division Cour	SMT 2044	STEP 1&2 Lesson Math and Sci	2	(Combined Step 1&2: Inquiry-Based Approaches...) Field hours. Fingerprint clearance required.		
General Electives			3	See Assigned Advisor for 3000/4000 Level Course		
Biology Laboratories			1	See Assigned Advisor for 3000/4000 Level Biology Lab		
Biology Education	SMT 3100	Know and Learn Math and Sci	3	Prerequisite/Corerequisite: SMT 2044. Refer to course syllabus or course catalog for assigned field hours, if any.		

<p>Spring Term 2022 Students should begin preparing for the FTCE: Professional Education Test and/or Subject Area Exam 6-12 as planned with their assigned advisor.</p> <p>If SCE 4194 course is taken in this semester, it will satisfy the Global Learning (GL) Discipline Specific requirement.</p> <p>They must also maintain an average cumulative GPA of a 2.5, with a minimum of a 2.0 in all Education coursework.</p>					<p>Term GPA: 2 Term Hours: 14 Cum GPA: 2.5</p>	
Course Group	Course Required	Course Description	Credit Hours	Course Notes		
Biology Education	SCE 4194	Pers in Sci and Math Ed	3	Refer to course syllabus or course catalog for assigned field hours, if any.		
Biology Core Courses	PCB 4023	Cell Biology	3	Prerequisite: PCB 3063 and CHM 1046		
Biology Distribution - Ecology			3	See Assigned Advisor for 3000/4000 Level Biology Ecology Elective Course		
Biology Education	SMT 4301	Class Interact Math and Sci	3	Prerequisite: SMT 3100. Fingerprint clearance required to complete assigned field hours		
General Electives			2	See Assigned Advisor for 3000/4000 Level Course		

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<p>Summer Term 2022 Summer enrollment is encouraged, but not applicable for all students. This may be determined after meeting with their assigned advisor.</p> <p>If TSL 4324 course is taken in this semester, it will satisfy the Global Learning (GL) Discipline Specific requirement.</p> <p>Students should apply for Student Teaching through the Office of Clinical Experiences by June 1st, or when specified by the Clinical Experience Office and/or their assigned advisor.</p> <p>In addition, they should have passed the FTCE: Professional Education Test and/or Subject Area Exam Biology 6-12 as planned with their assigned advisor.</p> <p>Students must continue to maintain an average cumulative GPA of a 2.5, with a minimum of a 2.5 in all Education coursework.</p>				<p>Term GPA: 2 Term Hours: 9 Cum GPA: 2.5</p>
Course Group	Course Required	Course Description	Credit Hours	Course Notes
Biology Education	RED 4325	Subj Area Reading	3	Fingerprint clearance required to complete assigned field hours
Biology Education	TSL 4324	ESOL Content Areas	3	Prerequisite: Program Admission. Fingerprint clearance required to complete assigned field hours
Biology Core Courses	PCB 4674	Evolution	3	Prerequisites: PCB3063 and PCB3043

<p>Fall Term 2022 Students MUST have ALL required coursework completed and ALL FTCE Education Exams passed prior to placement in Student Teaching.</p> <p>Students must continue to maintain an average cumulative GPA of a 2.5, with a minimum of a 2.5 in all Education coursework.</p>				<p>Term GPA: 2 Term Hours: 16 Cum GPA: 2.5</p>
Course Group	Course Required	Course Description	Credit Hours	Course Notes
Biology Education	SMT 4664	Prob Based Instr Math-Sci	3	Prerequisite: SMT 3100 and SMT 4301. Fingerprint clearance required to complete assigned field hours.
Biology Core Courses	BSC 4931	Senior Seminar	1	Prerequisite/Corequisite: Senior Standing, PCB 3043, PCB 3063, PCB 4023, PCB 4674
Biology Distribution - Organismal Diversity			3	See Assigned Advisor for 3000/4000 Level Biology Organismal Diversity Elective Course
Biology Distribution - Physiology/Biochemistry			3	See Assigned Advisor for 3000/4000 Level Biology Physiology/Biochemistry Elective Course
Biology Education	BSC 3910	Biology Research Methods	3	Prerequisite: SMT 2044. Refer to course syllabus or course catalog for assigned field hours, if any.
Biology Distribution - Structure/Development			3	See Assigned Advisor for 3000/4000 Level Biology Structure/Development Elective Course

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<p>Spring Term 2023 Student teaching is a full-time teaching experience and requires commitment during school hours along with preparation and grading time.</p> <p>Students should apply for Graduation by the first week of classes, or as communicated by their advisor.</p> <p>Students must continue to maintain an average cumulative GPA of a 2.5, with a minimum of a C in all Education coursework.</p>				<p>Term GPA: 2 Term Hours: 6 Cum GPA: 2.5</p>
Course Group	Course Required	Course Description	Credit Hours	Course Notes
Biology Education	SCE 4944	Student Teaching	6	

General Requirements

Prerequisite Courses:

- BSC 2010 + BSC 2010L
- BSC 2011 + BSC 2011L
- CHM 1045 + CHM 1045L
- CHM 1046+ CHM 1046L
- CHM 2210 + CHM 2210L
- CHM 2211 + CHM 2211L
- PHY 2048 (or PHY2053) + PHY 2048L
- PHY 2049 (or PHY2054) + PHY 2049L
- MAC 2311
- MAC 2312 or STA3111 + STA3112 (or STA 2122 + STA 3123)

Critical Indicator is the minimum grade indicated in specific courses to demonstrate proficiency and progress in major. Earning less than the minimum grade is a trigger for a conversation with advisor.

GENERAL UNIVERSITY REQUIREMENTS

Transfer students are assumed to have completed an Associates of Arts Degree from a Florida Public Institution or satisfied completed 60 credits and the University Core Curriculum Requirements.

In addition, the following courses are required of incoming transfer students:

Global Learning Requirement for Transfers: Transfers entering FIU Fall 2011 or later are required to take two Global Learning courses.

Those who meet University Core Curriculum Requirements prior to entering FIU

- Two Global Learning Discipline Specific Courses (One of the two may be a Global Learning Foundation Course chosen in consultation with your advisor)

Those who do not meet University Core Curriculum Requirements prior to entering FIU

- One Global Learning Foundation Course (from the University Core Curriculum)
- One Global Learning Discipline Specific Course

Transfer courses may not be used to meet the FIU Global Learning Requirement. For a list of Global learning

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courses: <http://goglobal.fiu.edu>

Foreign Language Requirement for Graduation (FLENT/FLEX): A student who did not complete two years of the same foreign language in high school or at a post-secondary institution must successfully complete 8-10 credit hours of instruction in one foreign language prior to graduation. Exceptions include appropriate CLEP, AP, IB, TOEFL, or transfer credit. Contact your advisor for more information.

Summer Hours Requirement: All students entering FIU or any university within the State University System (SUS) of Florida with fewer than 60 credit hours are required to earn at least nine credit hours prior to graduation by attending one or more summer terms at a university in the SUS.

Upper Division Credit Requirement: The College of Arts, Sciences & Education requires completion of 45 credits upper division (3000 and 4000 level). Besides the upper division credits for the major, students will need to take some upper division electives. We recommend checking your degree audit and coordinating with your assigned advisor.

Grades: Students must earn a grade of 'C' or higher in all courses required for the major. A grade of 'C-' or lower is not acceptable in any required course.

This document only lists SELECTED requirements. See your Panther Degree Audit for a full list of CASE and major requirements at <http://my.fiu.edu>.

College of Arts, Sciences & Education: BS in Biology (Biology Education) specific admission Requirement: 1. GPA 2.5 minimum

2. Successful completion of 60 credit hours of lower-division coursework or an AA degree from an accredited institution
3. Pass all four sections of the General Knowledge Test (Reading Comprehension, English Language Skills, Mathematics and Essay).
4. Major Pre-requisite (listed above) must be taken and passed with a minimum grade of C

Graduation Requirement:

1. Have an overall GPA of 2.5 or higher
2. Successfully demonstrate all the Florida Educator Accomplish Practices at the pre-professional level. This is done throughout your coursework in the College of Education.
3. Pass the FTCE General Knowledge, Professional Educator and Subject Area exams prior to graduation. Note: At FIU, the Professional Educator and Subject Area exams must be passed prior to Student Teaching.

Testing Requirement:

1. General Knowledge Exam - English Language
2. General Knowledge Exam - Reading
3. General Knowledge Exam - Essay
4. General Knowledge Exam - Math
5. Professional Education Exam
6. Subject Area Exam in Biology Education