

Undergraduate Major Map

Catalog Year 2023
College / School Arts, Sciences & Education
Major Biological Sciences - BS
Track / Concentration Biology Education Major
Career Path Two Year Transfer

<p>Fall Term 2023 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 2024 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 2024 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 2024 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 2025 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