

Undergraduate Major Map

Catalog Year 2023
College / School Arts, Sciences & Education
Major Biological Sciences - BS
Track / Concentration Forensic Biomolecular Biology
Career Path Four Year Freshman

Fall Term 2023 The Major map should be used as a general guide. Please make sure to meet regularly with your academic advisor and use your Panther Degree Audit to track your requirements. Also, make sure to refer to the Major Map Endnotes for more specific information. Math placement is based on your Math Placement Score and classes are to be selected in consultation with an advisor. MAC1147 prerequisite: MAC1105 or adequate Math Placement Score.				Term GPA: 2 Term Hours: 15 Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes
Biology Prerequisites	CHM 1045	Gen Chemistry I	3	Satisfies UCC Natural Science Group One course
Biology Prerequisites	MAC 2311	Calculus I	4	Satisfies UCC Mathematics Group One course
Biology Prerequisites	CHM 1045L	Gen Chem Lab I	1	Satisfies UCC Natural Science Group One lab. Co-requisite: CHM1045
UCC Communication	ENC 1101	Writing and Rhetoric I	3	Satisfies UCC Communication requirement
UCC First Year Experience	SLS 1501	First Year Exper	1	
UCC Social Science Group One			3	May satisfy Gordon Rule with Writing (GRW) and/or Global Learning (GL) requirement. Please speak with your Academic Advisor. POS 2041 or AMH 2020 recommended if Civic Literacy requirement is not met

Spring Term 2024				Term GPA: 2 Term Hours: 14 Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes
Biology Prerequisites	BSC 2010	General Biology I	3	Satisfies UCC Natural Science Group One. Co-requisite: BSC 2010L
Biology Prerequisites	BSC 2010L	Gen Biology Lab I	1	Satisfies UCC Natural Science Group One Lab. Co-requisite: BSC 2010
UCC Communication	ENC 1102	Writing and Rhetoric II	3	Satisfies UCC Communication requirement
Biology Prerequisites	CHM 1046	Gen Chemistry II	3	Prerequisites: CHM 1045 and CHM 1045L
Biology Prerequisites	CHM 1046L	Gen Chem Lab II	1	Co-requisite: CHM 1046
Biology Prerequisites	STA 3111	Statistics I	3	Satisfies UCC Mathematics Group Two. Prerequisite: MAC 2311. Alternative: STA3111 and STA3112 (or STA2122 and STA3123)

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Summer Term 2024 By end of Summer 1, student should have 30 credits or more. Use this semester to catch up on coursework and/or satisfy the 9 credits summer requirement.					Term GPA: 2 Term Hours: 6 Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes	
UCC Humanities Group One			3	May satisfy Gordon Rule with Writing (GRW) and/or Global Learning (GL) requirement. Please speak with your Academic Advisor	
Biology Prerequisites	STA 3112	Statistics II	3		

Fall Term 2024					Term GPA: 2 Term Hours: 14 Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes	
Biology Prerequisites	BSC 2011	General Biology II	3	Satisfies UCC Natural Science Group Two	
Biology Prerequisites	BSC 2011L	Gen Biology Lab II	1	Satisfies UCC Natural Science Group Two Lab. Co-requisite: BSC 2011	
Biology Prerequisites	CHM 2210	Organic Chem I	4	Prerequisite: CHM 1045 /1045L and CHM 1046/1046L	
Biology Prerequisites	CHM 2210L	Org Chem Lab I	1	Co-requisite: CHM2210	
Biology Prerequisites	PHY 2048	Physics W/Calculus I	4	Alternative: PHY2053. Satisfies UCC Natural Science Group One	
Biology Prerequisites	PHY 2048L	General Phys Lab I	1	Satisfies UCC Natural Science Group One Lab	

Spring Term 2025					Term GPA: 2 Term Hours: 15 Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes	
Biology Prerequisites	PHY 2054	Physics W/O Calc II	4	PHY2054. Satisfies UCC Natural Science Group Two course	
UCC Arts			3	May satisfy Gordon Rule with Writing (GRW) and/or Global Learning (GL) requirement. Please speak with your Academic Advisor	
Biology Prerequisites	PHY 2049L	General Phys Lab II	1	Satisfies UCC Natural Science Group Two lab	
General Electives			3	Consult with Academic Advisor.	
Organic Chemistry II	CHM 2211	Organic Chem II	3	Prerequisite: CHM 2210 with lab	
Organic Chemistry II	CHM 2211L	Organic Chem Lab II	1	Co-requisite: CHM2211	

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<p>Summer Term 2025 By end of Summer 2, student should have 60 credits or more.</p> <p>Use this semester to catch up on coursework and/or satisfy the 9 credits summer requirement (if needed).</p>	<p>Term GPA: 2 Cum GPA: 2</p>
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Fall Term 2025				<p>Term GPA: 2 Term Hours: 14 Cum GPA: 2</p>
Course Group	Course Required	Course Description	Credit Hours	Course Notes
UCC Social Science Group Two			3	May satisfy Gordon Rule with Writing (GRW) and/or Global Learning (GL) requirement. Please speak with your Academic Advisor.
UCC Humanities - Group Two			3	May satisfy Gordon Rule with Writing (GRW) and/or Global Learning (GL) requirement. Please speak with your Academic Advisor.
Physiology/Biochem Dist	BCH 3033	Gen. Biochemistry	3	BCH 3033: General Biochemistry (required for track). Prerequisites: CHM2211 and BSC2010
Biology Labs	BCH 3033L	Gen. Biochemistry	1	BCH3033L required for track. Upper Division Biology laboratories require previous or concurrent enrollment of lecture course
Biology Labs	PCB 3063L	Genetics Lab	1	PCB3063L required for track. Upper Division Biology laboratories require previous or concurrent enrollment of lecture course
Required Courses	PCB 3063	Genetics	3	Prerequisite: BSC2010

Spring Term 2026				<p>Term GPA: 2 Term Hours: 13 Cum GPA: 2</p>
Course Group	Course Required	Course Description	Credit Hours	Course Notes
3000-4000 Level Electives			3	Consult with Academic Advisor. If not already completed, take a Discipline Specific GL course
Organismal Diversity Distribut	BSC 3400	Wildlife Forensics	3	BSC 3400: Wildlife Conservation, Forensic and Crime Science (required for track)
Required Courses	PCB 3043	Ecology	3	Prerequisites: BSC2010 & BSC2011.
Biology Electives			3	Biology Elective from any of the four distribution areas. Recommendations for track: ENY 4060 Entomology (with lab) and PCB 4553: General Population Genetics (GL Designated course)
Biology Laboratories			1	Biology Lab can be ENY4060.

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Summer Term 2026 Use this semester to catch up on coursework and/or satisfy the 9 credits summer requirement (if needed).				Term GPA: 2 Term Hours: 4 Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes
Internship	BSC 4944	Forensic Internship	0	Prerequisites: BSC 2010 and BSC 2011.
Structure/Development Dis	BSC 4401	Principles Forensic Biol	3	BSC 4401: Principles of Forensic Biology (required for track).
Biology Labs	BSC 4401L	Forensic Biology Lab	1	BSC4401L required for track. Upper Division Biology laboratories require previous or concurrent enrollment of lecture course.

Fall Term 2026				Term GPA: 2 Term Hours: 12 Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes
Required Courses	PCB 4023	Cell Biology	3	Prerequisites: PCB3063 and CHM1046
Required Courses	PCB 4674	Evolution	3	Prerequisites: PCB3063 and PCB3043.
3000-4000 Level Electives			3	Consult with Academic Advisor. If not already completed, take a Discipline Specific GL course
3000-4000 Level Electives			3	Consult with Academic Advisor. If not already completed, take a Discipline Specific GL course

Spring Term 2027				Term GPA: 2 Term Hours: 13 Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes
3000-4000 Level Electives			3	
Required Courses	BSC 4931	Senior Seminar	1	Pre/Co-requisites: PCB3063, PCB3043, PCB4023 and PCB4674
3000-4000 Level Electives			3	Consult with Academic Advisor. If not already completed, take a Discipline Specific GL course
Biology Electives			3	Biology Elective from any of the four distribution areas. Recommendations for track: ENY 4060 Entomology (with lab) and PCB 4553: General Population Genetics (GL Designated course)
Ecology Area Elective			3	PCB 4553: General Population Genetics (GL Designated course) strongly recommended for track.

Summer Term 2027 Use this semester to catch up on coursework and/or satisfy the 9 credits summer requirement (if needed).				Term GPA: 2 Cum GPA: 2
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Undergraduate Major Map

General Requirements

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

See your Panther Degree Audit (PDA) for a real-time update on your academic career progress and additional information on University and major requirements at <http://my.fiu.edu>.

(1) UCC: Students must meet the University Core Curriculum (UCC) requirements. For a full list of UCC courses, see <http://undergrad.fiu.edu/advising/curriculum.html> or speak with your advisor. UCC courses must be taken for a letter grade and may not be taken at other institutions without permission from the Dean of Undergraduate Education.

(2) Global Learning: Freshmen entering FIU Summer B 2010 or later must take at least two Global Learning (GL) designated courses at FIU. See <http://goglobal.fiu.edu>. Courses must be:

- 1 GL foundation course (from the University Core Curriculum), which must be taken within the first 60 credits.
- 1 GL discipline-specific course (3000/4000 level)

(3) 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.

(4) Gordon Rule with Writing (GRW) Requirement: Students are required to demonstrate college-level writing skills through six semester hours of Gordon Rule Writing-designated courses (GRW). To fulfill this requirement, students can select any two GRW-designated courses in the University Core Curriculum. These courses can be from the same or different categories.

(5) 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.

(6) Postsecondary Civic Literacy (CL): Students must demonstrate understanding of American Civics via completed course work or test credit. Consult with an advisor to determine the best option for satisfying this requirement.

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.

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.

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>.

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1. Complete 5 Core Biology courses
2. Complete Area A: Ecology course
3. Complete Area B: Organismal Diversity course
4. Complete Area C: Physiology/Biochemistry course
5. Complete Area D: Structure/Development course
6. Complete 4 Biology upper division labs
7. Complete 2 additional Upper Division Biology lecture courses (from any distribution area)