

## Undergraduate Major Map

**Catalog Year** 2021  
**College / School** Arts, Sciences & Education  
**Major** Biological Sciences - BA  
**Track / Concentration** Bioentrepreneur Track  
**Career Path** Four Year Freshman

<b>Fall Term 2021</b> 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.				<b>Term GPA:</b> 2 <b>Term Hours:</b> 14 <b>Cum GPA:</b> 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes
UCC First Year Experience	SLS 1501	First Year Exper	1	
Biology Prerequisites	MAC 1147	PreCal Alg and Trig	4	Prerequisite: MAC1105. Satisfies UCC Mathematics Group One
Biology Prerequisites	BSC 1005	Biology: The Big Picture	3	Alternative: BSC1000 (Local and Global Perspectives in Biology - GL Designated course)
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
UCC Communication	ENC 1101	Writing and Rhetoric I	3	Satisfies UCC Communication requirement

<b>Spring Term 2022</b>				<b>Term GPA:</b> 2 <b>Term Hours:</b> 13 <b>Cum GPA:</b> 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes
UCC Communication	ENC 1102	Writing and Rhetoric II	3	Satisfies UCC Communication requirement
Biology Prerequisites	CHM 1045	Gen Chemistry I	3	Satisfies UCC Natural Science Group One. Prerequisites: MAC 1105 or adequate placement test score. Co-requisite: CHM 1045L
Biology Prerequisites	CHM 1045L	Gen Chem Lab I	1	Corequisite: CHM1045
Statistics	STA 3111	Statistics I	3	Satisfies UCC Mathematics Group Two
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

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<b>Summer Term 2022</b> By the 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.				<b>Term GPA:</b> 2 <b>Term Hours:</b> 3 <b>Cum GPA:</b> 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

<b>Fall Term 2022</b>				<b>Term GPA:</b> 2 <b>Term Hours:</b> 14 <b>Cum GPA:</b> 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes
General Electives			3	Consult with Academic Advisor
UCC Arts			3	May satisfy Gordon Rule with Writing (GRW) and/or Global Learning (GL) requirement. Please speak with your Academic Advisor
Biology Prerequisites	BSC 2010	General Biology I	3	Satisfies UCC Natural Science Group One course. Co-requisite: BSC2010L
Biology Prerequisites	BSC 2010L	Gen Biology Lab I	1	Satisfies UCC Natural Science Group One lab. Co-requisite: BSC2010
Biology Prerequisites	CHM 1046	Gen Chemistry II	3	Prerequisite: CHM1045 with lab. Co-requisite: CHM1046
Biology Prerequisites	CHM 1046L	Gen Chem Lab II	1	Co-requisite: CHM1046

<b>Spring Term 2023</b>				<b>Term GPA:</b> 2 <b>Term Hours:</b> 13 <b>Cum GPA:</b> 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. Co-requisite: BSC 2011L
Biology Prerequisites	BSC 2011L	Gen Biology Lab II	1	Satisfies UCC Natural Science Group Two lab. Co-requisite: BSC 2011
Biology BA Required	BCH 2020	Foundations of Biochem	3	Prerequisites: BSC 2010 and CHM 1045
Biological Organization	BSC 2300	Biological Organization	3	Prerequisites: BSC 2010 and CHM 1045
General Electives			3	Consult with Academic Advisor

## Undergraduate Major Map

<b>Summer Term 2023</b> By end of Summer 2, student should have 60 credits or more.  Use this semester to catch up on coursework and/or satisfy the 9 credits summer requirement (if needed)				<b>Term GPA:</b> 2 <b>Term Hours:</b> 6 <b>Cum GPA:</b> 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes
UCC Humanities - Group Two			3	May satisfy Gordon Rule with Writing (GRW) and/or Global Learning (GL) requirement. Please speak with your Academic Advisor
Track Bioentrepreneur			3	Consult with Academic Advisor

<b>Fall Term 2023</b>				<b>Term GPA:</b> 2 <b>Term Hours:</b> 14 <b>Cum GPA:</b> 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes
Biology Prerequisites	PHY 2053	Physics W/O Calc I	4	PHY2053 or PHY2048. Satisfies UCC Natural Science Group One course
Biology BA Core	PCB 3043	Ecology	3	Prerequisites: BSC 2010 and BSC 2011
Biology Laboratories			1	Upper Division Biology laboratories require previous or concurrent enrollment of lecture course
Biology BA Core	PCB 3063	Genetics	3	Prerequisite: BSC 2010
Track Bioentrepreneur			3	Consult with Academic Advisor

<b>Spring Term 2024</b>				<b>Term GPA:</b> 2 <b>Term Hours:</b> 13 <b>Cum GPA:</b> 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes
Biology BA Core	PCB 4674	Evolution	3	Prerequisites: PCB 3043 and PCB 3063
Biology Distribution - Ecology			3	
Biology Distribution - Organismal Diversity			3	
General Electives			3	Consult with Academic Advisor
Biology Laboratories			1	Upper Division Biology laboratories require previous or concurrent enrollment of lecture course

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<b>Summer Term 2024</b> By end of Summer 3, student should have 90 credits or more.  Use this semester to catch up on coursework and/or satisfy the 9 credits summer requirement (if needed).				<b>Term GPA:</b> 2 <b>Term Hours:</b> 4 <b>Cum GPA:</b> 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes
General Electives			1	Can be Student Internship or Research
Track Bioentrepreneur			3	Consult with Academic Advisor

<b>Fall Term 2024</b>				<b>Term GPA:</b> 2 <b>Term Hours:</b> 13 <b>Cum GPA:</b> 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes
Biology Laboratories			1	Upper Division Biology laboratories require previous or concurrent enrollment of lecture course
Biology Distribution - Physiology/Biochemistry			3	
Electives			3	Biology Elective from any of the four distribution areas.
Electives			3	Biology Elective from any of the four distribution areas.
Track Bioentrepreneur			3	Consult with Academic Advisor

<b>Spring Term 2025</b>				<b>Term GPA:</b> 2 <b>Term Hours:</b> 13 <b>Cum GPA:</b> 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes
Biology BA Core	BSC 4931	Senior Seminar	1	Pre/Co-requisites: PCB 3063, PCB 3043, and PCB 4674
Track Bioentrepreneur			3	Consult with Academic Advisor
Biology Distribution - Structure/Development			3	
Electives			3	Biology Elective from any of the four distribution areas.
Track Bioentrepreneur			3	Consult with Academic Advisor

<b>Summer Term 2025</b> Use this semester to catch up on coursework and/or satisfy the 9 credits summer requirement (if needed).				<b>Term GPA:</b> 2 <b>Cum GPA:</b> 2
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### 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 an 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

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major requirements at <http://my.fiu.edu>.

1. Complete 4 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 3 Biology upper division labs
7. Complete 3 additional Upper Division Biology lecture courses (from any distribution area)
8. Complete 18 credits within the Bioentrepreneur Track. Consult with Academic Advisor