

Undergraduate Major Map

Catalog Year 2022
College / School Arts, Sciences & Education
Major Biological Sciences - BS
Track / Concentration Quantify Biology Clsm (QBIC)
Career Path Four Year Freshman

Fall Term 2022 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	
UCC First Year Experience	SLS 1501	First Year Exper	1		
Biology Prerequisites	MAC 2311	Calculus I	4	Satisfies UCC Mathematics Group One	
Biology Prerequisites QBIC	CHM 1045	Gen Chemistry I	3	Satisfies UCC Natural Science Group One	
Biology Prerequisites QBIC	CHM 1045L	Gen Chem Lab I	1	Satisfies UCC Natural Science Group One Lab. Co-requisite: CHM 1045	
Biology Prerequisites	MAC 2241L	Calc 1 Lab Biology	1	See QBIC coordinator	
QBIC Prerequisites	BSC 2921	QBIC Journal Club I	1	See QBIC coordinator	
Biology Prerequisites	BSC 2010	General Biology I	3	Co-requisite: BSC2010L	
Biology Prerequisites	BSC 2010L	Gen Biology Lab I	1	Co-requisite: BSC2010	

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Spring Term 2023					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 One. Co-requisite: BSC 2011L	
Biology Prerequisites	BSC 2011L	Gen Biology Lab II	1	Satisfies UCC Natural Science Group One Lab. Co-requisite: BSC 2011	
Biology Prerequisites QBIC	CHM 1046	Gen Chemistry II	3	Prerequisites: CHM 1045 and CHM 1045L	
Biology Prerequisites QBIC	CHM 1046L	Gen Chem Lab II	1	Co-requisite: CHM 1046	
Biology Prerequisites	MAC 2312	Calculus II	4	Satisfies UCC Mathematics Group Two. Prerequisite: MAC 2311. Alternative: STA3111 and STA3112	
QBIC Prerequisites	BSC 2922	QBIC Journal Club II	1	See QBIC coordinator	
Biology Prerequisites	MAC 2242L	Cal 2 Lab Biology	1	See QBIC coordinator	

Summer Term 2023					Term GPA: 2
By end of Summer 1, student should have 30 credits or more.					Term Hours: 6
Use this semester to catch up on coursework and/or satisfy the 9 credits summer requirement.					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	
UCC Communication	ENC 1101	Writing and Rhetoric I	3	Satisfies UCC Communication requirement	

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Fall Term 2023					Term GPA: 2
					Term Hours: 16
					Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes	
Biology Prerequisites	CHM 2210	Organic Chem I	4	Prerequisites: CHM 1045/1045L and CHM 1046/1046L	
Biology Prerequisites	CHM 2210L	Org Chem Lab I	1	Co-requisite: CHM 2210	
Statistics I & II	STA 3193	Stat for Biology I	3	See QBIC coordinator	
QBIC CORE COURSES	PCB 3063	Genetics	3	Prerequisite: BSC2010	
QBIC CORE COURSES	PCB 3063L	Genetics Lab	1	Co-requisite: PCB3063	
QBIC CORE COURSES	BSC 3924	QBIC Gene Journal Club	1	See QBIC coordinator	
UCC Communication	ENC 1102	Writing and Rhetoric II	3	Satisfies UCC Communication requirement. Prerequisite: ENC1101	

Spring Term 2024					Term GPA: 2
					Term Hours: 15
					Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes	
QBIC CORE COURSES	PCB 3043	Ecology	3	Prerequisites: BSC2010 and BSC2011	
Biology Prerequisites	CHM 2211	Organic Chem II	3	Prerequisites: CHM 2210/2210L	
Biology Prerequisites	CHM 2211L	Organic Chem Lab II	1	Co-requisite: CHM 2211	
UCC Arts			3	May satisfy Gordon Rule with Writing (GRW) and/or Global Learning (GL) requirement. Please speak with your Academic Advisor	
QBIC CORE COURSES	PCB 3043L	Ecology Lab	1	Co-requisite: PCB3043	
Statistics I & II	STA 3194	Stat for Biology II	3	See QBIC coordinator	
QBIC CORE COURSES	BSC 3923	QBIC Ecology Journal Club	1	See QBIC coordinator	

Summer Term 2024					Term GPA: 2
By end of Summer 2, student should have 60 credits or more.					Term Hours: 3
Use this semester to catch up on coursework and/or satisfy the 9 credits summer requirement (if needed).					Cum GPA: 2
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	

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Fall Term 2024				Term GPA: 2
				Term Hours: 13
				Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes
QBIC CORE COURSES	PCB 4023	Cell Biology	3	Prerequisites: CHM1046 and PCB3063
QBIC CORE COURSES	PCB 4023L	Cell Biology Lab	1	Co-requisite: PCB4023
Biology Prerequisites	PHY 2048	Physics W/Calculus I	4	Prerequisite/Co-requisite: MAC2311
QBIC CORE COURSES	BSC 4925	QBIC Cell Bio Journal Club	1	See QBIC coordinator
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
Biology Prerequisites	PHY 2048L	General Phys Lab I	1	Co-requisite: PHY2048

Spring Term 2025				Term GPA: 2
				Term Hours: 12
				Cum GPA: 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
QBIC CORE COURSES	PCB 4674	Evolution	3	Prerequisites: PCB3043 and PCB3063
QBIC CORE COURSES	BSC 4926	QBIC Evol Journal Club	1	See QBIC coordinator
Biology Prerequisites	PHY 2049	Physics W/Calc II	4	Prerequisite/co-requisite: MAC2312
Biology Prerequisites	PHY 2049L	General Phys Lab II	1	Co-requisite: PHY2049

Summer Term 2025		Term GPA: 2
By end of Summer 2, student should have 90 credits or more.		Cum GPA: 2
Use this semester to catch up on coursework and/or satisfy the 9 credits summer requirement (if needed).		

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Fall Term 2025				Term GPA: 2
				Term Hours: 14
				Cum GPA: 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 - Ecology			3	
Biology Electives QBIC			3	Biology Elective from any of the four distribution areas
3000-4000 Level Electives			3	Consult with Academic Advisor. If not already completed, take a Discipline Specific GL course
QBIC CORE COURSES	BSC 4927	QBIC Science Cafe	1	Prerequisites/Co-requisites: PCB3063, PCB3043, PCB4023 and PCB4674
Biology Distribution - Organismal Diversity			3	

Spring Term 2026				Term GPA: 2
				Term Hours: 12
				Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes
Biology Distribution - Structure/Development			3	
3000-4000 Level Electives			3	Consult with Academic Advisor. If not already completed, take a Discipline Specific GL course
Biology Distribution - Physiology/Biochemistry			3	
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

Summer Term 2026				Term GPA: 2
Use this semester to catch up on coursework and/or satisfy the 9 credits summer requirement (if needed).				Cum GPA: 2

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

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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>.

1. Complete 5 Core Biology courses
2. Complete 6 QBIC Journal Club courses
3. Complete Area A: Ecology course
4. Complete Area B: Organismal Diversity course
5. Complete Area C: Physiology/Biochemistry course

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6. Complete Area D: Structure/Development course
7. Complete 4 Biology upper division labs
8. Complete 1 additional Upper Division Biology lecture course from any of the four distribution areas