

Undergraduate Major Map

Catalog Year 2018
College / School Arts, Sciences & Education
Major Biological Sciences - BS
Track / Concentration
Career Path Four Year Freshman

Fall Term 2018

Term Hours: 15

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 ALEKS scores and classes are to be selected in consultation with an advisor. Calculus prerequisite math sequence may start from MAT1033 to MAC1105 to MAC1140 and MAC1114 (or MAC1147).

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
UCC Communication	ENC 1101	Writing and Rhetoric I	3		Course satisfies UCC Communication requirement.
Biology Prerequisites	MAC 2311	Calculus I	4	B	Also satisfies UCC Mathematics Group One course.
UCC First Year Experience	SLS 1501	First Year Exper	1		
Biology Prerequisites	CHM 1045	Gen Chemistry I	3	C	Also satisfies UCC Natural Science Group One course.
Biology Prerequisites	CHM 1045L	Gen Chem Lab I	1		Also satisfies UCC Natural Science Group One lab. Corequisite: CHM1045.
UCC Social Science Group One			3		May satisfy Gordon Rule with Writing (GRW) and/or Global Learning (GL) requirement.

Spring Term 2019

Term Hours: 15

Complete MAC2312 or Statistics I & II sequence.

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
Biology Prerequisites	BSC 2010	General Biology I	3	B	Also satisfies UCC Natural Science Group One course. Corequisite BSC2010L.
Biology Prerequisites	BSC 2010L	Gen Biology Lab I	1	C	Also satisfies UCC Natural Science Group One lab. Corequisite: BSC1010.
UCC Communication	ENC 1102	Writing and Rhetoric II	3		Course satisfies UCC Communication requirement.
Biology Prerequisites	CHM 1046	Gen Chemistry II	3	C	Prerequisite: CHM1045 with lab
Biology Prerequisites	CHM 1046L	Gen Chem Lab II	1		Corequisite: CHM1046
Biology Prerequisites	MAC 2312	Calculus II	4	B	Also satisfies UCC Mathematics Group Two course.

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Summer Term 2019

Term Hours: 3

By end of Summer 1, student should have 30 credits or more and have completed MAC 2311 with "C" or higher.

Use this semester to catch up on coursework and/or satisfy the 9 credits summer requirement (if needed). (3) See endnotes

3000-4000 courses recommended. Please consult with advisor.

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
UCC Humanities Group One			3		May satisfy Gordon Rule with Writing (GRW) and/or Global Learning (GL) requirement.

Fall Term 2019

Term Hours: 14

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
Biology Prerequisites	BSC 2011L	Gen Biology Lab II	1		Also satisfies UCC Natural Science Group Two lab. Corequisite: BSC1011.
Biology Prerequisites	CHM 2210	Organic Chem I	4	C+	Prerequisite: CHM1045 with lab, and CHM1046 with lab
Biology Prerequisites	CHM 2210L	Org Chem Lab I	1	C	Corequisite: CHM2210
Biology Prerequisites			4	C	PHY2048 or PHY2053. Also satisfies UCC Natural Science Group One course.
Biology Prerequisites	PHY 2048L	General Phys Lab I	1	C	Also satisfies UCC Natural Science Group One lab.
Biology Prerequisites	BSC 2011	General Biology II	3		Also satisfies UCC Natural Science Group Two course.

Spring Term 2020

Term Hours: 12

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
Biology Prerequisites			4	C	PHY2049 or PHY2054. Also satisfies UCC Natural Science Group Two course.
Biology Prerequisites	PHY 2049L	General Phys Lab II	1	C	Also satisfies UCC Natural Science Group Two lab.
Biology Prerequisites	CHM 2211	Organic Chem II	3	C	Prerequisite: CHM2210 with lab
Biology Prerequisites	CHM 2211L	Organic Chem Lab II	1	C	Corequisite: CHM2211
UCC Arts			3		May satisfy Gordon Rule with Writing (GRW) and/or Global Learning (GL) requirement.

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Summer Term 2020

Term Hours: 6

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). (3) See endnotes

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
UCC Social Science Group Two			3		May satisfy Gordon Rule with Writing (GRW) and/or Global Learning (GL) requirement. Please consult with advisor.
UCC Humanities - Group Two			3		May satisfy Gordon Rule with Writing (GRW) and/or Global Learning (GL) requirement.

Fall Term 2020

Term Hours: 13

Please consult with your advisor about the best way to satisfy the foreign Language requirement.

May use electives to satisfy Global Learning (GL) or Gordon Rule with Writing (GRW) requirements and Elective Outside the Major. Please consult with advisor.

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
Biology Core Courses	PCB 3063	Genetics	3	C	Prerequisite: BSC1010
Biology Laboratories			1		Upper Division Biology laboratories require previous or concurrent enrollment of lecture course.
Biology Distribution - Physiology/Biochemistry			3		
General Electives			3		
3000-4000 Level Electives			3		If not already completed, take a Discipline Specific GL course.

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Spring Term 2021

Term Hours: 13

Please consult with your advisor about the best way to satisfy the foreign Language requirement.

May use electives to satisfy Global Learning (GL) or Gordon Rule with Writing (GRW) requirements and Elective Outside the Major. Please consult with advisor.

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
Biology Core Courses	PCB 3043	Ecology	3	C	Prerequisite: BSC1010+BSC1011
Biology Laboratories			1		Upper Division Biology laboratories require previous or concurrent enrollment of lecture course.
Biology Distribution - Organismal Diversity			3		
General Electives			3		
3000-4000 Level Electives			3		

Summer Term 2021

Last of the 9 Summer hours completed this Summer semester.

Use this semester to catch up on coursework and/or satisfy the 9 credits summer requirement (if needed). (3) See endnotes

Fall Term 2021

Term Hours: 14

May use electives to satisfy Global Learning (GL) or Gordon Rule with Writing (GRW) requirements and Elective Outside the Major. Please consult with advisor.

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
Biology Core Courses	PCB 4023	Cell Biology	3	C	Prerequisite: PCB3063 and CHM1046
Biology Laboratories			1		Upper Division Biology laboratories require previous or concurrent enrollment of lecture course.
Biology Distribution - Ecology			3		
Biology Electives			3		
3000-4000 Level Electives			3		
General Electives			1		Can be Student Internship or Research

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Spring Term 2022

Term Hours: 15

May use electives to satisfy Global Learning (GL) or Gordon Rule with Writing (GRW) requirements and Elective Outside the Major. Please consult with advisor.

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
Biology Core Courses	PCB 4674	Evolution	3	C	Prerequisite: PCB3063 and PCB3043
Biology Laboratories			1		Upper Division Biology laboratories require previous or concurrent enrollment of lecture course.
3000-4000 Level Electives			3		
Biology Electives			3		
General Electives			1		
Biology Core Courses	BSC 4931	Senior Seminar	1	C	Pre/Co-requisite: PCB3063+PCB3043+PCB4674+BSC4931
Biology Distribution - Structure/Development			3		

Summer Term 2022

Use this semester to catch up on coursework and/or satisfy the 9 credits summer requirement (if needed). (3) See endnotes

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

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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.

College Foreign Language Requirement: Students must demonstrate competency in a foreign language or in American Sign Language at the level of the second semester of a college language sequence. You may be able to satisfy this requirement with AP, CLEP Exam, or other credit. Contact your 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.

Upper Division Credit Requirement: The College of Arts, Sciences & Education requires completion of 48 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 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)