

Undergraduate Major Map

Catalog Year 2017
College / School Arts, Sciences & Education
Major Biochemistry - BS
Track / Concentration
Career Path Four Year Freshman

Fall Term 2017

Term Hours: 15
Cum GPA: 2

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. Pre-Calculus math sequence is MAC1105 and MAC 1147 or MAC 1105, MAC1140 and MAC1114

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
UCC First Year Experience	SLS 1501	First Year Exper	1		Satisfies UCC First Year Experience course. (1) See endnotes
UCC Communication	ENC 1101	Writing and Rhetoric I	3		Satisfies UCC Communication course 1. (1) See endnotes
UCC Arts			3		May satisfy Gordon Rule with Writing (GRW) and/or Global Learning (GL) requirements. Please speak with your advisor
Common Prerequisites	CHM 1045	Gen Chemistry I	3	B	Also satisfies UCC Natural Science Group 1 course. (1) See endnotes
Common Prerequisites	CHM 1045L	Gen Chem Lab I	1	B	Also satisfies UCC Natural Science Group 1 course. (1) See endnotes
Common Prerequisites	MAC 2311	Calculus I	4		Also satisfies UCC Mathematics Group 1 course. (1) See endnotes

Spring Term 2018

Term Hours: 14
Cum GPA: 2

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
UCC Communication	ENC 1102	Writing and Rhetoric II	3		Satisfies UCC Communication course 2. (1) See endnotes
UCC Social Science Group One			3		May satisfy Gordon Rule with Writing (GRW) and/or Global Learning (GL) requirements. Please speak with your advisor
Common Prerequisites	CHM 1046	Gen Chemistry II	3	B	
Common Prerequisites	CHM 1046L	Gen Chem Lab II	1	B	
Common Prerequisites	MAC 2312	Calculus II	4		Also satisfies UCC Mathematics Group 2 course. (1) See endnotes

Undergraduate Major Map

Summer Term 2018

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 (if needed). (3) See endnotes

Term Hours: 4
Cum GPA: 2

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
Biochemistry Core	CHM 3120	Intro Analyt Chem	3		
Biochemistry Core	CHM 3120L	Intr Analyt Chm Lab	1		

Fall Term 2018

May use UCC Social Science course to satisfy a Global Learning requirement. (2) See endnotes

Term Hours: 12
Cum GPA: 2

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) requirements. Please speak with your advisor
Common Prerequisites	CHM 2210	Organc Chem I	4	B	
Common Prerequisites	CHM 2210L	Org Chem Lab I	1	B	
Common Prerequisites	BSC 1010	General Biology I	3	C	Also satisfies UCC Natural Science Group 1 course. (1) See endnotes
Common Prerequisites	BSC 1010L	Gen Biology Lab I	1	C	Also satisfies UCC Natural Science Group 1 course. (1) See endnotes

Spring Term 2019

Students are required to select 2 Gordon Rule With Writing (GRW) courses from the UCC. Some courses in Humanities Group 1 may satisfy the GRW requirement.

May use electives to satisfy Global Learning (GL) or Gordon Rule with Writing (GRW) requirements. Please speak with your advisor.14

Term Hours: 14
Cum GPA: 2

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) requirements. Please speak with your advisor
3000-4000 Level Electives			3		Global Learning Discipline Specific course recommended
Common Prerequisites	BSC 1011	General Biology II	3	C	Also satisfies UCC Natural Science Group 2 course. (1) See endnotes
Common Prerequisites	BSC 1011L	Gen Biology Lab II	1	C	Also satisfies UCC Natural Science Group 2 course Lab. (1) See endnotes
Common Prerequisites	CHM 2211	Organic Chem II	3	B	
Common Prerequisites	CHM 2211L	Organic Chem Lab II	1	B	

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Summer Term 2019

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

Term Hours: 3
Cum GPA: 2

Students are required to select 2 Gordon Rule With Writing (GRW) courses from the UCC. All courses in Humanities Group 2 will satisfy one of the GRW requirements.

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
UCC Humanities - Group Two			3		May satisfy Gordon Rule with Writing (GRW) and Global Learning (GL) requirements. Please speak with your advisor

Fall Term 2019

Term Hours: 13
Cum GPA: 2

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
Biochemistry Core	CHM 4304	Biol Chemistry I	3	C	
Biochemistry Core	CHM 4304L	Biol Chem I Lab	1	C	
Common Prerequisites	PHY 2048	Physics W/Calculus I	4		
Common Prerequisites	PHY 2048L	General Phys Lab I	1		
Biochemistry Core	PCB 3063	Genetics	3		
Biochemistry Core	PCB 3063L	Genetics Lab	1		

Spring Term 2020

Term Hours: 13
Cum GPA: 2

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
Biochemistry Core	CHM 4307	Biol Chemistry II	3		
Biochemistry Core	CHM 4307L	Bio Chem Lab II	1		
Common Prerequisites	PHY 2049	Physics W/Calc II	4		Also satisfies UCC Natural Science Group 2 course. (1) See endnotes
Common Prerequisites	PHY 2049L	General Phys Lab II	1		Also satisfies UCC Natural Science Group 2 course Lab. (1) See endnotes
Biochemistry Core	MCB 3020	General Microbiology	3		
Biochemistry Core	MCB 3020L	General Micro Lab	1		

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Summer Term 2020

9 credit Summer Requirement met (3).

Term Hours: 9
Cum GPA: 2

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
General Electives			3		
General Electives			3		
General Electives			3		

Fall Term 2020

Apply for Spring Graduation

Term Hours: 14
Cum GPA: 2

College of Arts, Sciences & Education requires 45 credits of 3000 or 4000 level courses, plan accordingly. Consult with your advisor to find out how many more you need. This varies for every student, depending on which UCC and Biochemistry Core Set Option courses are selected.

May use electives to satisfy Global Learning (GL) or Gordon Rule with Writing (GRW) requirements. Please speak with your advisor.

Biochemistry Core Set Option requires students to take either Set 1: CHM 3410L AND CHM 3411L OR Set 2: CHM 4130 AND CHM 4130L.

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
Biochemistry Core	CHM 4910L	Under Res Chem	3		
Biochemistry Core	CHM 3410	Phys Chem I	4		
Biochemistry Core Continued			1		Options: CHM 3410L
General Electives			3		
3000-4000 Level Electives			3		

Spring Term 2021

Students are required to take a nationally-normed chemistry examination in their last semester before graduation.

Term Hours: 10
Cum GPA: 2

May use electives to satisfy Global Learning (GL) or Gordon Rule with Writing (GRW) requirements. Please speak with your advisor.

Biochemistry Core Set Option requires students to take either Set 1: CHM 3410L AND CHM 3411L OR Set 2: CHM 4130 AND CHM 4130L.

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
Biochemistry Core	CHM 3411	Phys Chem II	4		
Biochemistry Core	CHM 4930	Senior Seminar	1		
Biochemistry Core Continued			2		Take CHM 4130 and CHM 4130L or take CHM 3411L if CHM 3410L was taken in the Fall
Biochem Core Additional			3		Students may not use CHM3410L, CHM3411L or CHM4130, CHM4130L if they were used to complete the Set Option Requirement.

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Summer Term 2021

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

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

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),
- 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: All Gordon Rule courses (i.e., English Composition, Humanities with Writing, and Quantitative Reasoning) must be completed with a minimum grade of "C." This requirement must be fulfilled within the first 60 credits.

(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 of Arts, Sciences & Education: Selected Requirements

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.

College of Arts, Sciences & Education: BS in Biochemistry specific requirements

1. Biochemistry core consists of 38-40 units.
2. Students are required to take a nationally-normed chemistry examination in their last semester before graduation.

**Students who plan to pursue a career in research should plan to start their independent study project no later

Undergraduate Major Map

than the beginning of the fourth year and are encouraged to begin sooner.

Students interested in Pre-Medical, Dentistry, Veterinary, Optometry, Pharmacy Curricula should consult the Pre-Health advisors at 305-348-0515.