

Undergraduate Major Map

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

Fall Term 2017

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

Term GPA: 2
Term Hours: 15
Cum GPA: 2

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
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
UCC Communication	ENC 1101	Writing and Rhetoric I	3		Satisfies UCC Communication course 1. (1) See endnotes
UCC First Year Experience	SLS 1501	First Year Exper	1		Satisfies UCC First Year Experience course. (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	MAC 2311	Calculus I	4	B	Also satisfies UCC Mathematics Group 1 course. (1) See endnote

Spring Term 2018

Term GPA: 2
Term Hours: 14
Cum GPA: 2

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
Common Prerequisites	CHM 1046	Gen Chemistry II	3	B	
Common Prerequisites	CHM 1046L	Gen Chem Lab II	1	B	
UCC Communication	ENC 1102	Writing and Rhetoric II	3		Satisfies UCC Communication course 2. (1) See endnotes
Common Prerequisites	MAC 2312	Calculus II	4	B	Also satisfies UCC Mathematics Group 2 course. (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.

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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 GPA: 2
Term Hours: 4
Cum GPA: 2

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

Fall Term 2018

Term GPA: 2
Term Hours: 15
Cum GPA: 2

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
Common Prerequisites	CHM 2210	Organc Chem I	4	B	
Common Prerequisites	CHM 2210L	Org Chem Lab I	1	B	
General Biology	BSC 1010	General Biology I	3	C	
General Biology	BSC 1010L	Gen Biology Lab I	1	C	
UCC Social Science Group Two			3		May satisfy Gordon Rule with Writing (GRW) and/or Global Learning (GL) requirements. Please speak with your advisor.
UCC Humanities Group One			3		May satisfy Gordon Rule with Writing (GRW) and/or Global Learning (GL) requirements. Please speak with your advisor.

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Spring Term 2019

Choose BSC1011 and BSC1011L for Cogate Area course (with Critical Progress of "C" for each course) if Pre-med.

Term GPA: 2
Term Hours: 14
Cum GPA: 2

May use 3000-4000 Level Electives course to satisfy the Outside of Major requirement

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

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
3000-4000 Level Electives			3		
Common Prerequisites	CHM 2211	Organic Chem II	3	B	
Common Prerequisites	CHM 2211L	Organic Chem Lab II	1	B	
UCC Humanities - Group Two			3		May satisfy Gordon Rule with Writing (GRW) and/or Global Learning (GL) requirements. Please speak with your advisor.
Cognate Area Course			3		
Cognate Area Course			1		Taken only if the Cognate Area Course has a corresponding lab.

Summer Term 2019

9 credit Summer Requirement met (3).

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

Term GPA: 2
Term Hours: 6
Cum GPA: 2

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

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
3000-4000 Level Electives			3		Global Learning Discipline Specific course recommended
General Electives			3		

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Fall Term 2019

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

Term GPA: 2
Term Hours: 14
Cum GPA: 2

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
Physics With Calculus Sequence			4	C	PHY2048 or PHY2053
Physics With Calculus Sequence	PHY 2048L	General Phys Lab I	1		
General Electives			3		
3000-4000 Level Electives			3		
General Electives			3		

Spring Term 2020

If College of Arts, Sciences & Education Foreign Language requirement has been satisfied or waived, a General Elective may be taken instead to satisfy the Elective Outside the Major requirement (if needed)

Term GPA: 2
Term Hours: 12
Cum GPA: 2

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
Biological Chemistry I	CHM 4304	Biol Chemistry I	3	C	
Biological Chemistry I	CHM 4304L	Biol Chem I Lab	1	C	
Physics With Calculus Sequence			4	C	PHY2049 or PHY2054. Also satisfies UCC Natural Science Group 2 course. (1) See endnotes
Physics With Calculus Sequence	PHY 2049L	General Phys Lab II	1	C	Also satisfies UCC Natural Science Group 2 course. (1) See endnotes
General Electives			3		

Summer Term 2020

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

Term GPA: 2
Cum GPA: 2

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Fall Term 2020

Apply for Spring Graduation

Term GPA: 2
Term Hours: 13
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. This varies for every student, depending on UCC courses selected.

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

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
Fundamentals of Physical Chemistry	CHM 3400	Fund.Phys.Chm	3		
Fundamentals of Physical Chemistry	CHM 3400L	Fund.Phys.Chm.Lab	1		
Restricted Electives - Additional			3		Lecture Only - See End Notes
3000-4000 Level 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 GPA: 2
Term Hours: 14
Cum GPA: 2

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

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
Chemistry Restricted Electives			1		Lab - See End Note
Chemistry Restricted Electives			3		Lecture - See End Note
Senior Seminar	CHM 4930	Senior Seminar	1		
Chemistry 4000 Level			3		CHM 4910L and CHM 4911L may not be used
3000-4000 Level Electives			3		
3000-4000 Level Electives			3		

Summer Term 2021

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

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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: All Gordon Rule courses (i.e., English Composition, Humanities, and Mathematics) 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.

See Panther Degree Audit for all CASE and major requirements at <http://my.fiu.edu>.

College of Arts, Sciences & Education: BA in Chemistry specific requirements

1. Chemistry restricted electives: complete 2 lecture courses; 1 of them with the associated lab with a minimum grade of "C."
2. Complete 1 additional 4000-level Chemistry course; cannot use CHM 4910L, CHM 4911L
3. Students are required to take a nationally-normed chemistry examination in their last semester before

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graduation. Contact chemistry department for more information.

*Students who wish to graduate in the customary four years should make sure they are ready to take Physical Chemistry I at the beginning of the third year of study

**Students who plan to pursue a career in research should plan to start their independent study project no later than the beginning of the fourth year and are encouraged to begin sooner.

Pre-Medical, Dentistry, Veterinary, Optometry, Pharmacy Curricula Students who have satisfied the requirements for either the BA or the BS degree in chemistry will also have satisfied the course requirements for admission to professional schools in the above areas. The BA-Chemistry degree (Biochemistry Concentration) includes additional course work relevant to the career objectives of the student. Interested students should consult the Pre-medical advisor, Dr. Landrum at 305-348-3091