

Undergraduate Major Map

Catalog Year 2016
College / School Arts and Sciences
Major Chemistry - BS
Track / Concentration
Career Path Four Year Freshman

Fall Term 2016

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
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
Common Prerequisites	MAC 2311	Calculus I	4	B	Also satisfies UCC Mathematics Group 1 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

Spring Term 2017

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

Undergraduate Major Map

Summer Term 2017

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
Chemistry Core	CHM 3120	Intro Analyt Chem	3		
Chemistry Core	CHM 3120L	Intr Analyt Chm Lab	1		

Fall Term 2017

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

Term Hours: 13
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	
Common Prerequisites	PHY 2048	Physics W/Calculus I	4	C	
Common Prerequisites	PHY 2048L	General Phys 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

Spring Term 2018

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.

Term Hours: 12
Cum GPA: 2

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
Common Prerequisites	CHM 2211	Organic Chem II	3	B	
Common Prerequisites	CHM 2211L	Organic Chem Lab II	1	B	
Common Prerequisites	PHY 2049	Physics W/Calc II	4	C	Also satisfies UCC Natural Science Group 2 course. (1) See endnotes
Common Prerequisites	PHY 2049L	General Phys Lab II	1	C	Also satisfies UCC Natural Science Group 2 course Lab. (1) See endnotes
UCC Humanities Group One			3		May satisfy Gordon Rule with Writing (GRW) and/or Global Learning (GL) requirements. Please speak with your advisor

Undergraduate Major Map

Summer Term 2018

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

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.

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

Term Hours: 6

Cum GPA: 2

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
3000-4000 Level Electives			3		Global Learning Discipline Specific course recommended

Fall Term 2018

If College Foreign Language requirement has been satisfied, a General Elective may be taken instead to satisfy the Elective Outside the Major requirement (if needed)

Term Hours: 14

Cum GPA: 2

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
Chemistry Core	CHM 3410	Phys Chem I	4	C	
Chemistry Core	CHM 3410L	Phys Chm Lab I	1	C	
Arts & Sciences: Foreign Language			5		Please speak with your advisor about the best way to satisfy the foreign language requirement.
Chemistry Math Course			4		Choose from COP2270, MAC2313, or MAP2302

Spring Term 2019

If College Foreign Language requirement has been satisfied, a General Elective may be taken instead to satisfy the Elective Outside the Major requirement (if needed).

Term Hours: 15

Cum GPA: 2

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
Chemistry Core	CHM 3411	Phys Chem II	4		
Chemistry Core	CHM 3411L	Phys Chem Lab II	2		
Chemistry Core	CHM 4130	Instrument Analysis	3		
Chemistry Core	CHM 4130L	Instr Analysis Lab	1		
Arts & Sciences: Foreign Language			5		Please speak with your advisor about the best way to satisfy the foreign language requirement.

Summer Term 2019

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

Cum GPA: 2

Undergraduate Major Map

Fall Term 2019

Apply for Spring Graduation

Term Hours: 14

Cum GPA: 2

College requires 48 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
Chemistry Core	CHM 4220	Adv Org Chem	3		
Chemistry Core	CHM 4910L	Under Res Chem	3		
Chemistry Core	CHM 4611	Adv Inorganic Chemis	3		
Chemistry Core	CHM 4611L	Adv Inorg Chem Lab	1		
3000-4000 Level Electives			3		
Chemistry Core			1		Take CHM 4230L if not planning to take CHM 4304L along with CHM 4304 the following semester

Spring Term 2020

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

Term Hours: 13

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 Core	CHM 4304	Biol Chemistry I	3		Take CHM 4304L if CHM 4230L was not taken along with CHM 4220 in the previous semester
Chemistry Core	CHM 4930	Senior Seminar	1		
3000-4000 Level Electives			3		
3000-4000 Level Electives			3		
Additional 4000 Chemistry			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

Cum GPA: 2

General Requirements

*Critical Indicator is the minimum grade indicated in specific courses to demonstrate proficiency and progress in

Undergraduate Major Map

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 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 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.

1. Choose one of the following Chemistry Math courses to meet requirement: COP 2270, MAC 2313, or MAP 2302
2. Chemistry core consists of 34 units. Either CHM 4230L or CHM 4304L must be completed, but not both.
3. Complete 3 additional units of a 4000 level Chemistry course.
4. Students are required to take a nationally-normed chemistry examination in their last semester before graduation.

*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 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.