

Undergraduate Major Map

Catalog Year 2021
College / School Arts, Sciences & Education
Major Chemistry - BA
Track / Concentration
Career Path Four Year Freshman

Fall Term 2021 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. Pre-Calculus math sequence is MAC1105 and MAC 1147. Please note: Chemistry placement is also determined by your Math Placement Score, and/or completion of MAC 1105.					Term GPA: 2 Term Hours: 15 Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes	
General Chemistry	CHM 1045	Gen Chemistry I	3	Also satisfies UCC Natural Science Group 1 course. (1) See endnotes	
General Chemistry	CHM 1045L	Gen Chem Lab I	1	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.	
Chemistry Math	MAC 2311	Calculus I	4	Also satisfies UCC Mathematics Group 1 course. (1) See endnote	

Spring Term 2022					Term GPA: 2 Term Hours: 14 Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes	
General Chemistry	CHM 1046	Gen Chemistry II	3	Prerequisites: CHM 1045 and CHM 1045L	
General Chemistry	CHM 1046L	Gen Chem Lab II	1		
UCC Communication	ENC 1102	Writing and Rhetoric II	3	Satisfies UCC Communication course 2. (1) See endnotes	
Chemistry Math	MAC 2312	Calculus II	4	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. (8) POS 2041 or AMH 2020 recommended if Civic Literacy requirement is not met.	

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Summer Term 2022 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	Course Notes
Intro to Analytical Chemistry	CHM 3120	Intro Analyt Chem	3	Prerequisites: CHM 1046 and CHM 1046L
Intro to Analytical Chemistry	CHM 3120L	Intr Analyt Chm Lab	1	

Fall Term 2022				Term GPA: 2 Term Hours: 15 Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes
Organic Chemistry	CHM 2210	Organc Chem I	4	Prerequisites: CHM 1046 and CHM 1046L
Organic Chemistry	CHM 2210L	Org Chem Lab I	1	
General Biology	BSC 2010	General Biology I	3	
General Biology	BSC 2010L	Gen Biology Lab I	1	
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 2023 Choose BSC2011 and BSC2011L for Cogate Area course (with Critical Progress of ""C"" for each course) if Pre-med. 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					Term GPA: 2 Term Hours: 15 Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes	
3000-4000 Level Electives			3		
General Electives			1	Could be lab, internship, or research credit. Consult with Academic Advisor	
Organic Chemistry	CHM 2211	Organic Chem II	3	Prerequisites: CHM 2210 and CHM 2210L	
Organic Chemistry	CHM 2211L	Organic Chem Lab II	1		
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 2023 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 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: 6 Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes	
3000-4000 Level Electives			3	Global Learning Discipline Specific course recommended	
General Electives			3		

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Fall Term 2023 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: 12 Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes
Physics Sequence			4	PHY2048 or PHY2053
Physics Sequence	PHY 2048L	General Phys Lab I	1	
3000-4000 Level Electives			3	Consult with Academic Advisor. If not already completed, take a Discipline Specific GL course
General Electives			1	Could be lab, internship, or research credit. Consult with Academic Advisor
General Electives			3	Consult with Academic Advisor. If not already completed, take a Discipline Specific GL course

Spring Term 2024 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	Course Notes
Biological Chemistry I	CHM 4304	Biol Chemistry I	3	Prerequisites: CHM 1046 and CHM 1046L
Biological Chemistry I	CHM 4304L	Biol Chem I Lab	1	
Physics Sequence			4	PHY2049 or PHY2054. Also satisfies UCC Natural Science Group 2 course. (1) See endnotes
Physics Sequence	PHY 2049L	General Phys Lab II	1	Also satisfies UCC Natural Science Group 2 course. (1) See endnotes
General Electives			3	

Summer Term 2024 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 2024 Apply for Spring Graduation 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.				Term GPA: 2 Term Hours: 13 Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes
Fundamentals of Physical Chemistry	CHM 3400	Fund.Phys.Chm	3	Prerequisite: CHM 3120/L, MAC 2312, PHY 2049 or PHY 2054, PHY 2049L
Fundamentals of Physical Chemistry	CHM 3400L	Fund.Phys.Chm. Lab	1	
Restricted Electives			3	Lecture Only - See End Notes
3000-4000 Level Electives			3	
3000-4000 Level Electives			3	

Spring Term 2025 Students are required to take a nationally-normed chemistry examination in their last semester before graduation. 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	Course Notes
Chemistry Restricted Concentration			1	Lab - See End Note
Chemistry Restricted Concentration			3	Lecture - See End Note
Senior Seminar	CHM 4930	Senior Seminar	1	Can only be completed in final semester of program with advisor permission
Chemistry 4000/5000 Level			3	CHM 4910L and CHM 4911L may not be used
3000-4000 Level Electives			3	
3000-4000 Level Electives			3	

Summer Term 2025 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.

(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.

College of Arts, Sciences & Education: Selected Requirements

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."

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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 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 third 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 PreHealth Advising at 305-348-0515