

Undergraduate Major Map

Catalog Year 2021
College / School Arts, Sciences & Education
Major Chemistry - BA
Track / Concentration Forensic Chemistry
Career Path Two Year Transfer

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. 2 year map is based on completion of all required lower division pre-requisite courses Consult with your advisor to find out how many upper division elective credits you need. College of Arts, Sciences & Education requires a minimum of 45 credits of upper division (3000-4000 level) courses.				Term Hours: 14
Course Group	Course Required	Course Description	Credit Hours	Course Notes
Cognate Area Course	CCJ 2020	Criminal Justice	3	Cognate Area Course Required for Forensic Chemistry Concentration
3000-4000 Level Electives			3	Global Learning Discipline Specific Course Recommended. See End notes
Intro to Analytical Chemistry	CHM 3120	Intro Analyt Chem	3	Prerequisite: CHM1046, CHM1046L. Corequisite: CHM3120L.
Intro to Analytical Chemistry	CHM 3120L	Intr Analyt Chm Lab	1	Prerequisite or corequisite: CHM 3120
Biological Chemistry I	CHM 4304	Biol Chemistry I	3	Prerequisite: CHM2211, CHM2211L
Biological Chemistry I	CHM 4304L	Biol Chem I Lab	1	Prerequisite or corequisite: CHM4304

Undergraduate Major Map

<p>Spring Term 2022 May use one 3000-4000 Level Elective to satisfy the Global Learning requirement. (2) See endnotes</p> <p>May use one 3000-4000 Level Elective to satisfy the Elective Outside the Major requirement (if needed)</p> <p>Complete PHY2049/2054 or CHM2211 if not completed prior to transferring to FIU. Both are required.</p>				<p>Term Hours: 13</p>
Course Group	Course Required	Course Description	Credit Hours	Course Notes
3000-4000 Level Electives			3	Global Learning Discipline Specific Course Recommended. See End notes
3000-4000 Level Electives			3	Consult with Academic Advisor. If not already completed, take a Discipline Specific GL course
Fundamentals of Physical Chemistry	CHM 3400	Fund.Phys.Chm	3	Prerequisite: (MAC2311,MAC2312, PHY2048, PHY2048L, PHY2049, PHY2049L) or (PHY2053, PHY2048L, PHY2054, PHY2049L, CHM3120, CHM3120L). Corequisite: CHM3400L.
Fundamentals of Physical Chemistry	CHM 3400L	Fund.Phys.Chm. Lab	1	Prerequisite or corequisite: CHM3400
Restricted Electives			3	List 2 lecture course. See Academic Advisor, PDA, or Catalog for list of options

<p>Summer Term 2022 Use this Semester to catch up on coursework if necessary.</p>				<p>Term Hours: 7</p>
Course Group	Course Required	Course Description	Credit Hours	Course Notes
3000-4000 Level Electives			3	Consult with Academic Advisor. If not already completed, take a Discipline Specific GL course
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

Undergraduate Major Map

Fall Term 2022 Apply for Spring Graduation May use two 3000-4000 Level Elective to satisfy the Elective Outside the Major requirement (if needed)				Term Hours: 13
Course Group	Course Required	Course Description	Credit Hours	Course Notes
3000-4000 Level Electives			3	Consult with Academic Advisor. If not already completed, take a Discipline Specific GL course
Restricted Electives	CHM 4130	Instrument Analysis	3	Prerequisite: (CHM3120, CHM3120L, CHM2211, CHM2211L, (CHM3410 or CHM3400), (PHY2048, PHY2048L, PHY2049, PHY2049L) or (PHY2053, PHY2048L, PHY2054, PHY2049L)
Restricted Electives	CHM 4130L	Instr Analysis Lab	1	Prerequisite or corequisite: CHM4130
Chemistry 4000/5000 Level			3	One senior level chemistry elective (CHM4XXX/CHM5XXX or CHS4XXX/CHS5XXX)** with forensic emphasis. May NOT use CHM4910L or CHM4911L
General Electives			3	Consult with Academic Advisor. If not already completed, take a Discipline Specific GL course

Spring Term 2023 May use one General Elective to satisfy the Elective Outside the Major requirement (if needed) Students are required to take a nationally-normed chemistry examination in their last semester before graduation. Please contact the chemistry department for more information.				Term Hours: 13
Course Group	Course Required	Course Description	Credit Hours	Course Notes
3000-4000 Level Electives			3	Consult with Academic Advisor. If not already completed, take a Discipline Specific GL course
Senior Seminar	CHM 4930	Senior Seminar	1	Can only be completed in last semester of program with advisor permission
3000-4000 Level Electives			3	Consult with Academic Advisor. If not already completed, take a Discipline Specific GL course
General Electives			3	Consult with Academic Advisor. If not already completed, take a Discipline Specific GL course
General Electives			3	Consult with Academic Advisor. If not already completed, take a Discipline Specific GL course

Summer Term 2023 Use this Semester to catch up on coursework if necessary.			
--	--	--	--

General Requirements

Prerequisite Courses:

CHM 1045, CHM 1045L ----- CHMX045/X045L or CHMX045C or CHMX040 and CHMX041

Undergraduate Major Map

CHM 1046, CHM 1046L ----- CHMX046/X046L or CHMX046C
CHM 2210, CHM 2210L ----- CHMX210/X210L or CHMX210C
CHM 2211, CHM 2211L ----- CHMX211/X211L or CHMX211C
PHY 2048, PHY 2048L ----- PHYX048/X048L or PHYX053/X053L
PHY 2049, PHY 2049L ----- PHYX049/X049L or PHYX054/X054L
MAC 2311 ----- MACX311 or MACX233 or MACX253 or MACX081 or MACX241
MAC 2312 ----- MACX312 or MACX282
BSC 2010, BSC 2010L
BSC 2011, BSC 2011L

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

Transfer students are assumed to have completed an Associates of Arts Degree from a Florida Public Institution or satisfied completed 60 credits and the University Core Curriculum Requirements.

In addition, the following courses are required of incoming transfer students:

Global Learning Requirement for Transfers: Transfers entering FIU Fall 2011 or later are required to take two Global Learning courses.

Those who meet University Core Curriculum Requirements prior to entering FIU

-Two Global Learning Discipline Specific Courses (One of the two may be a Global Learning Foundation Course chosen in consultation with your advisor)

Those who do not meet University Core Curriculum Requirements prior to entering FIU

-One Global Learning Foundation Course (from the University Core Curriculum)

-One Global Learning Discipline Specific Course

Transfer courses may not be used to meet the FIU Global Learning Requirement. For a list of Global learning courses: <http://goglobal.fiu.edu>

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.

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.

The Civic Literacy requirement is a statewide mandate that applies to undergraduate students initially entering a Florida State University System (SUS) and/or Florida College System (FCS) institution in the 2018-19 academic year and thereafter. <https://transfer.fiu.edu/transfer-101/graduation-requirements/>

University Core Requirement/GRW: All students entering FIU or any university within the State University System (SUS) of Florida with fewer than 60 credit hours should meet with their academic advisor to discuss possible additional university requirements.

Undergraduate Major Map

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.

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>.

College specific requirements:

This concentration is intended for students who desire a comprehensive background in chemistry but with emphasis in forensic chemistry.

1. Choose from List 1 (Cognate Area Courses):

CCJ 2020

2. Choose from List 2 (Restricted Electives):

CHM 4130 and CHM 4130L and one other lecture course

3. One senior level chemistry elective (CHM4XXX/CHM5XXX)** which should have forensic emphasis

**CHM4910L or CHM4911L may not be used to satisfy this requirement.

4. Students are required to take a nationally-normed chemistry examination in their last semester before graduation. Please contact the chemistry department for more information.

CHECK PDA FOR ELIGIBLE COGNATE AREA COURSES AND APPROPRIATE RESTRICTED ELECTIVES.