

## Undergraduate Major Map

Catalog Year 2018  
College / School Arts, Sciences & Education  
Major Chemistry - BA  
Track / Concentration Chemical Education Major  
Career Path Two Year Transfer

### Fall Term 2018

Students in the major must pass all four parts (English Language Skills, Essay, Reading Comprehension, & Mathematics) of the FTCE General Knowledge Test prior to admission into the degree program. If student has not passed exam prior to admission to FIU, then student will be required to take and pass all portions of the General Knowledge test prior to the end of this term. Please see Secondary Education Advisor - 305-348-2978.

Students should begin preparations for the Professional Education exam, which must be passed prior to completion of 90 credits.

Term GPA: 2  
Term Hours: 15  
Cum GPA: 2.5

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
Intro to Analytical Chemistry	CHM 3120	Intro Analyt Chem	3	B	
Intro to Analytical Chemistry	CHM 3120L	Intr Analyt Chm Lab	1	C	
Education Requirements	SMT 3100	Know and Learn Math and Sci	3	C+	Field hours. Fingerprint clearance required.
Additional Lower Division Cour			1	C+	SMT2044 (Combined Step 1&2: Approaches to...) Field hours. Fingerprint clearance required.
Cognate Area Courses	BSC 2011	General Biology II	3		
Cognate Area Courses	BSC 2011L	Gen Biology Lab II	1		
Education Requirements	RED 4325	Subj Area Reading	3		Field hours. Fingerprint clearance required.

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### Spring Term 2019

Students are required to take and pass the Professional Education exam prior to end of this term.

Students should begin preparations to take the Subject Area exam by the end of next semester.

**Term GPA:** 2  
**Term Hours:** 16  
**Cum GPA:** 2.5

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
Education Requirements	TSL 4324	ESOL Content Areas	3		PHY2049 Or PHY2054
Fundamentals of Physical Chemistry	CHM 3400L	Fund.Phys.Chm.Lab	1		
Education Requirements	SMT 4301	Class Interact Math and Sci	3		
Education Requirements	SCE 4194	Pers in Sci and Math Ed	3		Field hours. Fingerprint clearance required.
Restricted Electives - Lecture			3		
Fundamentals of Physical Chemistry	CHM 3400	Fund.Phys.Chm	3		

### Summer Term 2019

Apply for Student Teaching through Office of Clinical Experiences by June 1st.

Complete any pending FTCE exams this term:

1. FTCE Professional Educator Exam
2. FTCE Subject Area Exam

**Term GPA:** 2  
**Term Hours:** 7  
**Cum GPA:** 2.5

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
Biological Chemistry I	CHM 4304	Biol Chemistry I	3		
Biological Chemistry I	CHM 4304L	Biol Chem I Lab	1		
General Electives			3		Field hours. Fingerprint clearance required.

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### Fall Term 2019

Apply for Spring Graduation.

**Term GPA:** 2  
**Term Hours:** 15  
**Cum GPA:** 2.5

Minimum cumulative FIU GPA of a 2.5 and successful completion of all coursework and FTCE exams required PRIOR to placement in Student Teaching.

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
Senior Seminar	CHM 4930	Senior Seminar	1		
General Electives			4		
Education Requirements			3		CHM 3XXX Research Methods in Chemistry
Education Requirements	SMT 4664	Prob Based Instr Math-Sci	3		Field hours. Fingerprint clearance required.
Restricted Electives - Lecture			3		
Restricted Electives - Labs			1		

### Spring Term 2020

Student teaching is a full-time teaching experience and requires commitment during school hours along with preparation and grading time.

**Term GPA:** 2  
**Term Hours:** 6  
**Cum GPA:** 2.5

Course Group	Course Required	Course Description	Credit Hours	Critical Indicator	Course Notes
Education Requirements	SCE 4944	Student Teaching	6		

## General Requirements

### Prerequisite Courses:

CHM 1045, CHM 1045L ---- CHMX045/X045L or CHMX045C or CHMX040 and CHMX041  
 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  
 STA 2122, STA 3123 ---- MACX234 or STAX023 or STAX024 or STAX321  
 BSC 1011, BSC 1010L

\*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 from a Florida Public Institution or completed 60 credits and the University Core Curriculum Requirements.

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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>

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 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

1. Chemistry restricted electives: complete 2 lecture courses; 1 of them with the associated lab with a minimum grade of "C." Also, must take BSC 1011 & BSC 1011L
2. Students are required to take a nationally-normed chemistry examination in their last semester before graduation. Contact chemistry department for more information.

### Admission Requirement:

1. GPA 2.5 minimum
2. Pass all four sections of the General Knowledge Test (Reading Comprehension, English Language Skills, Mathematics and Essay).

### Graduation Requirement:

1. Have an overall GPA of 2.5 or higher
2. Successfully demonstrate all the Florida Educator Accomplish Practices at the pre-professional level. This is done throughout your coursework in the College of Education.
3. Pass the FTCE General Knowledge, Professional Educator and Subject Area exams prior to graduation. Note: At FIU, the Professional Educator and Subject Area exams must be passed prior to Student Teaching.

### Testing Requirement:

1. FTCE General Knowledge Test (English Language, Reading, Essay, Math)
2. FTCE Professional Education Exam
3. FTCE Subject Area Exam in Chemistry

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\*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.