

SECONDARY SCIENCE EDUCATION/CHEMISTRY
B.S. CHEMISTRY/ TERRAPIN TEACHERS SECONDARY CERTIFICATION

Name: _____

UID: _____

Note: A minimum of 120 credits are required for a degree in addition to satisfactory completion of all courses and other degree requirements. The total number of credits actually earned for the degree may exceed 120 depending on the number of "elective" and "double count" courses taken.

PRE-PROFESSIONAL CONTENT REQUIREMENTS

GENERAL EDUCATION REQUIREMENTS

Fundamental Studies

Requirements: ___ credits	Course	Credits	Grade
Academic Writing (AW)		3	
Professional Writing (PW)		3	
Oral Communication (OC)		3	
Mathematics (MA)*	MATH 140	3	
Analytic Reasoning (AR)	MATH 140	3	

*Math 212 and 213 do not fulfill MA

Distributive Studies

Requirements: ___ credits	Course	Credits	Grade
Natural Science Lab (NL)	BSCI 170/171	4	
Natural Sciences (NS)	PHYS 161	3	
History/Social Sciences (HS)	TLPLxxx Knowing & Learning	3	
History/Social Sciences (HS)		3	
Humanities (HU)	TLPL Persp	3	
Humanities (HU)		3	
Scholarship in Practice (SP)	TLPLxx CI	3	
Scholarship in Practice (SP)		3	

I-Series (double count with Distributive Studies and/or Diversity)

Requirements: ___ credits	Course	Credits	Grade
I-Series (IS)		3	
I-Series		3/4	

Diversity (double count with Distributive Studies and/or I-series)

Requirements: ___ credits	Course	Credits	Grade
Understanding Plural Soc. (UP)	TLPLxx CI	3	
Understanding Plural Soc. Or Cultural Competency (CC)			

Experiential Learning – optional General Ed category

Requirements: ___ credits	Course	Credits	Grade
		3	
		3	

PROFESSIONAL PROGRAM

All Gen Ed, pre-professional and professional coursework must be completed with a "C-" or better prior to student teaching. Students must be admitted to the Professional Program in order to register for the courses below. Students must maintain a 2.75 GPA while completing these courses.

PROFESSIONAL COURSES (Fall Only)

TLPLxxx	Research Methods**	3	
EDCI 488P	Project Based Instruction (HU-CC)	3	
EDCI 470	Classroom Interactions	3	
EDCI 375	Field Experience in Science Education	1	

** counts as upper level CHEM elective; research credit plus TT seminar

Primary Major

Advisor: _____

Dean: _____

Chemistry Major

Please see a Chemistry advisor for details on coursework (must earn a "C-" or better)

CHEM 146/177	5	
CHEM 237 Principles of Organic Chemistry I	4	
CHEM 247 Principles of Organic Chemistry II	4	
CHEM 276 (or 271)/277	5	
CHEM 481 Physical Chemistry I	3	
CHEM 482 Physical Chemistry II	3	
CHEM 483 Physical Chemistry Laboratory I	2	
CHEM 401 Inorganic Chemistry	3	
CHEM 395 Prof Issues in Chemistry & Biochem	1	
CHEM 425 Instrumental Methods of Analysis	4	
CHEM 484 Physical Chemistry Laboratory II	2	
CHEM upper level electives	6	
*BSCI 170/171 Principles of Biology I (NL) (formerly BSCI105)	4	
*PHYS 161 (NS)	3	
*PHYS 260/261	4	
*MATH 140 Calculus I (AR)	4	
MATH 141 Calculus II	4	
MATH 241 Calculus III (Recommended)	4	

PRE-PROFESSIONAL EDUCATION COURSES

TLPL 101	Inquiry Teaching of STEM in Elementary School	1	
TLPL 102	Inquiry Teaching of STEM in Middle School	2	
TLPLxxx	Knowing & Learning (HS)*	3	
EDHD 426	Reading	3	
TLPL xxx	Perspectives in Science*	3	

* These courses may fulfill Gen Ed requirement.

STUDENT TEACHING SEMESTER (Spring Only)

EDCI 480	Student Teaching Seminar in Sec Science	2	
EDCI 471	Student Teaching in Science	12	
EDCI 474	Inclusion, Diversity and Professionalism	2	

Secondary Major

Advisor: _____

Dean: _____

Secondary Science Education/Chemistry Four-Year Plan

NOTE: This is a proposed plan and the College of Education does not guarantee that these courses will be offered in the designated semester. Consult the *Schedule of Classes* for class availability and meeting times. This curriculum is a double major program. **Please contact your Education and Chemistry advisors to verify LEP requirements, course selection and completion.**

FRESHMAN YEAR:

<i>Fall Semester:</i>	<i>Cr.</i>	<i>Spring Semester:</i>	<i>Cr.</i>
MATH 140 (AR/MA)	4	BSCI 170/171 (NL) (formerly BSCI105)	4
CHEM 146/177	5	CHEM 237	4
ENGL 101 (AW)	3	MATH 141	4
UNIV 100	1	HUMANITIES (HU/I-series/UP)	3
TLPL 101	1	TLPL 102	2
<i>Total Credits</i>	14	<i>Total Credits</i>	17

SOPHOMORE YEAR: *Apply to the College of Education by December 1st in the Fall semester. Begin identification of research experience in preparation for Research Methods Seminar to be taken junior year.*

<i>Fall Semester:</i>	<i>Cr.</i>	<i>Spring Semester:</i>	<i>Cr.</i>
PHYS 161 (NS)	3	CHEM 276 (or CHEM 271)	2
CHEM 247	4	CHEM 277	3
MATH 241 (Recommended)	4	PHYS 260/261	4
TLPL Knowing & Learning (HS) (currently EDCI 488M)	3	ORAL COMMUNICATION (OC)	3
Elective	1		
		TLPL Reading (currently EDHD 426)	3
<i>Total Credits</i>	15	<i>Total Credits</i>	15

JUNIOR YEAR:

<i>Fall Semester:</i>	<i>Cr.</i>	<i>Spring Semester:</i>	<i>Cr.</i>
CHEM 481	3	CHEM 482	3
CHEM 483	2	CHEM 484	2
CHEM 401	3	CHEM 395	1
TLPL Project based Instruction (currently EDCI488P)	3	TLPL Research Methods seminar w/ research lab credit counts in upper level CHEM	3
PROFESSIONAL WRITING (PW)	3	GenEd (HS/UP/I-series/SP)	3
		TLPL Perspectives in Science HU	3
<i>Total Credits</i>	14	<i>Total Credits</i>	15

SENIOR YEAR:

<i>Fall Semester:</i>	<i>Cr.</i>	<i>Spring Semester:</i>	<i>Cr.</i>
CHEM 425	4	EDCI 480 Student Teaching Seminar/Science	2
CHEM upper level elective	3	EDCI 471 Student Teaching in Science	12
TLPL Classroom Interactions (SP/UP) (currently EDCI470)	3	EDCI 474 Inclusion, Diversity & Professionalism	2
TLPL Field Experience in Science Education (currently EDCI 375)	1	No other classes taken this semester	
CHEM upper level elective	3		
<i>Total Credits</i>	14	<i>Total Credits</i>	16

Total Credits: 120

* All students must complete two Distributive Studies courses that are approved for **I-series** courses. Students must complete **Understanding Plural Societies** and **Cultural Competence** courses that may also fulfill a Distributive Studies category.

** All remaining Gen Ed and Pre-Professional courses not listed on this plan must still be completed to earn the Science Education/Chemistry Double Major degree.