

**SECONDARY SCIENCE EDUCATION/BIOLOGICAL SCIENCES**  
**B.S. BIOLOGICAL SCIENCES/ 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**

***Biological Science Major- General Biology***

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

**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 130 or MATH 140	4	
Analytical Reasoning (AR)	MATH 130 or MATH 140	4	

***Distributive Studies***

Requirements: ___ credits	Course	Credits	Grade
Natural Science Lab (NL)	BSCI 160/161	4	
Natural Sciences (NS)	BSCI 170/171	3	
History/Social Sciences (HS)	TLPLxx KL	3	
History/Social Sciences (HS)		3	
Humanities (HU)	TLPLxxPerS	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)		3	

*\*These courses may double count for Terrapin Teachers and GenEd*

***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)**

TLPL xxx	Research Methods**** (Res experience + Seminar)	3	
TLPLxxx	Project Based Instruction (SP)	3	
TLPLxxx	Classroom Interactions	3	
EDCI 375	Field Experience in Science Education	1	

*\*\*\*\* Counts for 3 credits in the BSCI Advanced Program*

**Primary Major**

Advisor: \_\_\_\_\_

Dean: \_\_\_\_\_

**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: \_\_\_\_\_

*BSCI160 / 161 Principles of Ecol Evol I (NL) (formerly BSCI106)	4	
*BSCI170 / 171 Principles of Cell Biology(NL) (formerly BSCI1005)	4	
BSCI 207 Principles of Biology III	4	
BSCI 222 Principle of Genetics	4	
*CHEM 131/132 General Chemistry I (NL)	4	
CHEM 231/232 Organic Chemistry I	4	
CHEM 241/242 Organic Chemistry II	4	
CHEM 271/272 General & Analytical Chemistry	4	
*MATH 130 or 140 Calculus I (AR)	4	
*MATH 131 or 141 Calculus II (AR)	4	
*PHYS 131 (NL)	4	
PHYS 132	4	
UNIV 100 Intro to the University (incoming freshmen only)	1	
Advanced Program Specialization Courses	27	

**PRE-PROFESSIONAL EDUCATION COURSES**

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

*\* These courses may fulfill Gen Ed requirement. Approvals are in progress*

## Secondary Science Education/Biological Sciences 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. **Please contact your Education and Biological Sciences advisors to verify LEP requirements, course selection, and completion.**

*PROGRAM PLAN IS FOR THE GENERAL BIOLOGY SPECIALIZATION (0404C)*

### FRESHMAN YEAR:

<i>Fall Semester:</i>	<i>Cr.</i>	<i>Spring Semester:</i>	<i>Cr.</i>
BSCI 160/161 (NL) (formerly BSCI106)	4	BSCI 170/171 (NL) (formerly BSCI105)	4
MATH 130 or 140 (AR/MA)	4	CHEM 231/232	4
CHEM 131/132 (NL)	4	MATH 131 or 141	4
ENGL 101 (AW)	3	HUMANITIES (HU/ I series/UP)	3
UNIV 100	1	TLPL 102	2
TLPL 101	1		
<i>Total Credits</i>	<b>17</b>	<i>Total Credits</i>	<b>17</b>

**SOPHOMORE YEAR:** *Apply to the College of Education after completion of TLPL Knowing & Learning Identify research experience to accompany Research Methods seminar taken junior year*

<i>Fall Semester:</i>	<i>Cr.</i>	<i>Spring Semester:</i>	<i>Cr.</i>
BSCI 207	3	BSCI 222	4
CHEM 241/242	4	CHEM 271/272	4
TLPL Knowing & Learning (HS) (currently EDCI 488M)	3	PHYS 131	4
ORAL COMMUNICATION (OC)	3	TLPL reading currently EDHD 426	3
BSCI Advanced Program BSCI 223	4		
<i>Total Credits</i>	<b>17</b>	<i>Total Credits</i>	<b>15</b>

### JUNIOR YEAR:

<i>Fall Semester:</i>	<i>Cr.</i>	<i>Spring Semester:</i>	<i>Cr.</i>
BSCI Advanced Program BSCI 330 upper level lab	4	BIOM 301	3
PHYS 132	4	TLPL Research Methods Seminar (1 cr) plus lab research (2 cr) counts in upper level BSCI	3
BCHM 463	3	BSCI Advanced Program lecture	3
TLPL Project based Instruction (currently EDCI 488P)	3	GenEd (HS /UP/I series/SP)	3
		TLPLxxx Perspectives in Science (HU)	3
<i>Total Credits</i>	<b>14</b>	<i>Total Credits</i>	<b>15</b>

### SENIOR YEAR:

<i>Fall Semester:</i>	<i>Cr.</i>	<i>Spring Semester:</i>	<i>Cr.</i>
BSCI Advanced Program Upper-level lab	4	EDCI 480	2
BSCI Advanced Program Upper-level Lecture	3	EDCI 471 full time classroom teaching	12
Professional Writing (PW)	3	EDCI 474	2
TLPL Classroom Interactions currently (SP/UP) (currently EDCI 470)	3	Note: no other courses should be taken this semester	
TLPL Field Experience in Science Education (currently EDCI 375)	1		
<i>Total Credits</i>	<b>14</b>	<i>Total Credits</i>	<b>16</b>

\* 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.

<b>Total Credits: 125</b>
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