

# BIOLOGY, BS - GRADES 7-12 LIFE SCIENCE EDUCATION CONCENTRATION

## Course Sequencing

### First Year

Fall		Hours
BIOL 1406	Biology I	4
CHEM 1411	General Chemistry I	4
ENGL 1301	Writing and Rhetoric I	3
UNIV 1101	University Seminar I	1
EDUC 1354	Child Growth and Development	3
<b>Hours</b>		<b>15</b>

### Spring

BIOL 1407	Biology II	4
CHEM 1412	General Chemistry II	4
ENGL 1302	Writing and Rhetoric II	3
UNIV 1102	University Seminar II	1
MATH 2413	Calculus I	4
<b>Hours</b>		<b>16</b>

### Second Year

Fall		Hours
BIOL 2371 or BIOL 2416 or BIOL 2421	Principles of Evolution or Genetics or Microbiology	3-4
CHEM 3411	Organic Chemistry I	4
ENGL 2316 or ENGL 2332 or ENGL 2333	Literature and Culture or Literature of the Western World: From the Classics to the Renaissance or Literature of the Western World: From the Enlightenment to the Present	3
EDUC 2211	Foundations of Education	2
Creative Arts Core Requirement		3
American History Core Requirement		3
<b>Hours</b>		<b>18-19</b>

### Spring

BIOL 2371 or BIOL 2416 or BIOL 2421	Principles of Evolution or Genetics or Microbiology	3-4
BIOL 2401	Anatomy and Physiology I	4
BIOL 2371 or BIOL 2416 or BIOL 2421	Principles of Evolution or Genetics or Microbiology	3-4
SPED 3310	Individual Differences in Schools and Communities	3
American History Core Requirement		3
<b>Hours</b>		<b>16-18</b>

### Third Year

Fall		Hours
ENGL 3301	Technical and Professional Writing	3
SMTE 4270	Science Education Topics I	2
Organismal Animal Requirement		4

Organismal Plant Requirement		4
READ 3353 or READ 3352	Content Area Reading for Secondary Students or Content Area Reading for Elementary Students	3
EDUC 3211	Culturally and Linguistically Responsive Teaching	2

**Hours 18**

### Spring

BIOL 3428	Principles of Ecology	4
Chemistry of Life/Cell Biology Requirement		4
SMTE 4320	Secondary Science Laboratory Techniques	3
SMTE 4217	Secondary Approaches to the Life Sciences	2
BIEM 4357	Methods of Teaching English as a Second Language	3

**Hours 16**

### Summer

Upper Division Elective		3
POLS 2305	U.S. Government and Politics	3
POLS 2306	State and Local Government	3

**Hours 9**

### Fourth Year

#### Fall

EDUC 4305	Seminar I	3
IDET 3210	Design and Development of Technology- Integrated Learning Environments	2

**Hours 5**

#### Spring

EDUC 4694	Clinical Teaching	6
EDUC 4395	Seminar II	3

**Hours 9**

**Total Hours 122-125**