

## **B.S. in Biology Curriculum with Emphasis in Secondary Teacher Education**

### **Core Curriculum for All Biology Majors (60 hours)**

<b>Course</b>	<b>Course Title</b>	<b>Prerequisite(s)</b>	<b>Credits</b>
<b>Area A—Essential Skills (9 hours)</b>			
ENGL 1101	English Composition I		3
ENGL 1102	English Composition II	ENGL 1101	3
<ul style="list-style-type: none"> <li>• MATH 1113 or</li> <li>• MATH 1112A</li> </ul>	<ul style="list-style-type: none"> <li>• Precalculus or</li> <li>• Trigonometry &amp; Analytic Geometry</li> </ul>	<ul style="list-style-type: none"> <li>• Placement into MATH 1113</li> <li>• MATH 1111</li> </ul>	3
<b>Area B—Critical Thinking and Communication (4 hours)</b>			
COMM 1001	Presentational Speaking		1
CRIT 1101	Critical Thinking		3
<b>Area C—Humanities (6 hours)</b>			
Area C1 elective	Choose from Courses Listed		3
Area C2 elective	Choose from Courses Listed		3
<b>Area D—Natural Sciences, Mathematics, and Technology (11 hours)</b>			
CHEM 1211 CHEM 1211L	Principles of Chemistry I Principles of Chemistry I Lab	MATH 1113 or MATH 1112A (can be taken concurrently)	4
CHEM 1212 CHEM 1212L	Principles of Chemistry I Principles of Chemistry I Lab	CHEM 1211 CHEM 1211L	4
MATH 1231	Statistics	Placement out of learning support	3
<b>Area E—Social Sciences (12 hours)</b>			
POLS 1101	American Government		3
HIST 1111 or 1112 or SOSC 2501	World History or Social Science		3
HIST 2111 or 2112	American History		3
PSYC 1101 or SOSC 1101	Behavioral Sciences		3
<b>Area F—Biology Major Specific Courses (18 hours)</b>			
BIOL 1107 BIOL 1107L	Principles of Biology I Principles of Biology I Lab		4
BIOL 1108 BIOL 1108L	Principles of Biology II Principles of Biology II Lab	BIOL 1107 BIOL 1107L	4
BIOL 2500	Introductory Plant Biology	BIOL 1108 BIOL 1108L	2
CHEM 2411 CHEM 2411L	Organic Chemistry I Organic Chemistry I Lab	CHEM 1212 CHEM 1212L	4
CHEM 2412 CHEM 2412L	Organic Chemistry II Organic Chemistry II Lab	CHEM 2411 CHEM 2411L	4

### Elective Lists for Core Curriculum

Area	Elective List
C1	ENGL 2111, ENGL 2112, ENGL 2121, ENGL 2122, ENGL 2131, ENGL 2132, FREN 2001, FREN 2002, SPAN 2001, SPAN 2002, PHIL 2201, PHIL 2601
C2	ART 2301, ART 2301, CMS 2100, FREN 2001, FREN 2002, SPAN 2001, SPAN 2002, MUSC 2101, MUSC 2301, PHIL 2401, THEA 1100

### Required Upper Division Biology Core Courses for All Biology Majors (32 hours)

Course	Course Title	Prerequisites	Credits
PHYS 1111 PHYS 1111L	Introductory Physics I Introductory Physics I Lab	MATH 1113 or MATH 1112A	4
PHYS 1112 PHYS 1112L	Introductory Physics II Introductory Physics II Lab	PHYS 1111 & PHYS 1111L	4
BIOL 3500 BIOL 3500L	Ecology Ecology Lab	BIOL 1108, BIOL 1108L & MATH 1231	4
BIOL 3650 BIOL 3650L	Comparative Vertebrate Anatomy Comparative Vertebrate Anatomy Lab	BIOL 1108 & BIOL 1108L	4
BIOL 3380	Evolution and Population Biology	BIOL 1108 & BIOL 1108L	3
BIOL 4201	Genetics	BIOL 1108 & BIOL 1108L	3
BIOL 3250 BIOL 3250L	Introductory Microbiology Introductory Microbiology Lab	BIOL 1108, BIOL 1108L, CHEM 2411 & CHEM 2411L	4
BIOL 3200	Cell Biology	BIOL 1108, BIOL 1108L, CHEM 2411 & CHEM 2411L	3
BIOL 4100	Animal Physiology	BIOL 3650 & BIOL 3650L	3

### Additional Requirements for Biology majors with a concentration in Teacher Education (31 hours)

EDUC 2110	Investigating Critical/Contemp. Issues		3
EDUC 2120	Exploring Socio-Culture		3
EDUC 2130	Exploring Teaching & Learning		3
EDUC 3030	Exploring-Exceptional Learner	Acceptance into the Program	3
EDUC 3200	Curriculum and Assessment	Acceptance into the Program	3
EDUC 3210	Classroom Management	Acceptance into the Program	3
EDUC 4003	Secondary Level Seminar	Acceptance into the Program	1
EDUC 4730	Secondary Level Internship	Acceptance into the Program	8
SCI 4901	Secondary Education Science Instruction	Acceptance into the Program	4
BIOL 4999	Senior Evaluation		0

**Total Degree Requirements for Biology with Concentration in Secondary Education 123 hours**