

**Curriculum for Bachelor of Science Degree in Biology
Non-Teaching**

Rev. 1/17/2012

Fall Semester

Spring Semester

Freshman Year

Principles of Biology	BIOL	1455	4
General Chemistry I	CHEM	1430	4
College Algebra*	MATH	1330	3
English Composition I	ENGL	1311	3
Personal & Social Dev.	BAS	1210	<u>2</u>
			16

Principles of Biology II	BIOL	1456	4
General Chemistry II	CHEM	1440	4
College Trigonometry*	MATH	1340	3
English Composition II	ENGL	1321	3
Physical Education	HLPE 1110-1125		<u>1</u>
			15

Sophomore Year

General Zoology	BIOL	1460	4
Organic Chemistry I	CHEM	3410	4
Oral Communications	SPCH	2390	3
Intro. to Social Science	SOCI	1320	
OR Intro to Sociology	SOCI	2310	3
Humanities	HUMN	2301	<u>3</u>
			17

General Botany	BIOL	1470	4
Organic Chemistry II	CHEM	3420	4
Personal Health & Safety	HLPE	1310	3
Intro. to Literature	ENGL	2300	
OR World Literature I	ENGL	2360	
OR World Literature II	ENGL	2361	3
Career & Life Planning	BAS	1120	<u>1</u>
			15

Junior Year

Comparative Anatomy	BIOL	3460	4
Chemistry Elective ⁺	CHEM	2430 OR 3412	4
General Physics I	PHYS	2410	4
College Grammar	ENGL	3301	
OR Adv Composition	ENGL	3310	
OR Technical Writing	JOUR	3350	<u>3</u>
			15

Cell Biology	BIOL	3480	4
General Physics II	PHYS	2420	4
Music Appreciation	MUSI	2330	3
OR			
Art Appreciation	ART	2340	
General Psychology	PSYC	2300	3
American Government	PSCI	2312	
OR U.S. History to 1877	HIST	2315	
OR U.S. History since 1877	HIST	2318	<u>3</u>
			17

Senior Year

Developmental Biology	BIOL	4460	4
Biology Elective**	BIOL	2360, 2451, 2452, 3360, 3390, 3450, 3470, 3490, CPSC 3346	3-4
Foreign Language	MDFL	2310, 2320, 2311 OR 2321	3
OR			
Intro to Bus Program	CPSC	2363	
Mathematics Elective	MATH	2370, 3321 OR 2510*	<u>3-5</u> 13-15

Genetics	BIOL	3440	4
Biology Seminar	BIOL	4170	1
Vertebrate Physiology	BIOL	4450	4
Foreign Language	MDFL	2310, 2320, 2311 or 2321	
OR			
Special Topic/Visual Basic	CPSC	2322	<u>3</u>
			12

120 credit hours

***MATH 1550, 2510, or 2320 may be substituted**
*Precalculus (MATH 1550) may be taken instead of College Algebra and College Trigonometry

Calculus (MATH 2510) is not required but encouraged

Chemistry Electives⁺
CHEM 2430- Quant Anal
CHEM 3412-Biochem

****Biology Electives**
BIOL 2360-Ecology
BIOL 2451-Human A & Phys I
BIOL 2452-Human A & Phys II
BIOL 3360-Parasitology
BIOL 3390-Gen. Pharm
BIOL 3450-Inv. Zoology
BIOL 3470-Microbiology
BIOL 3490-Histology
CPSC 3346- Bioinformatics

**Revised
1/17/2012**