

**BACHELOR OF ARTS/SCIENCE  
BIOLOGY  
2011-2012**

BA   
BS

GENERAL EDUCATION CORE	REQ	COMP	NEED
<b>SKILLS COMPONENT</b>			
ENGL 101 & 102	6		
ENGL 109			
COMM 101, 202, 203, 204, 205	3		
MATH 170	4		
<b>HUMANITIES 1 Lit &amp; 1 Art course (6 cr. required)</b>			
ENGL 150, ENGL 258, ENGL 257, HUM 301	3		
ART 100, HUM 101, HUM 150, MUS 101, THEA 101	3		
<b>NATURAL SCIENCES 2 courses: NS 150 &amp; 1 lab science</b>			
NS 150	3		
BIOL 102, 120, 175, 252	4		
CHEM 102, 105, 111			
FSCI 101			
GEOL 100, 120			
NS 100, 171 & 172			
PHYS 111, 205, 211			
<b>SOCIAL SCIENCE min 3 courses from 2 areas (9 cr. req.)</b>			
ANTH 102, 120, 170	9		
ECON 101, 102, 201, 202			
GEOG 102			
HIST 101, 102, 111, 112, 115			
HRPT 184, 185			
POLS 101, 285			
PSYC 101, 205			
SS 150, 184, 185			
SOC 101, 102			
<b>INTEGRATIVE COMPONENT 1 course required</b>			
NS, HUM, SS, 350	3		
ID, HUM, SS, 351			
<b>GENERAL EDUCATION TOTAL</b>	<b>38</b>		

FOREIGN/HERITAGE LANGUAGE	REQ	COMP	NEED
101			
102			
201			
202			
<b>TOTAL</b>	<b>16</b>		

128 Total Credits (minus remedial):

36 Upper Division Credits:

32 Resident Credits (LCSC):

**NOTES, SUBSTITUTIONS & WAIVERS**

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MAJOR COURSES	REQ	COMP	NEED
BIOL 180 Concepts/Cellular Mechanisms	4		
BIOL 181 Ecology, Evolution, and Diversity of Life	4		
BIOL 213 Plant and Animal Form and Function	4		
BIOL 341 Genetics	4		
BIOL 355 Microbiology <b>OR</b>	4		
BIOL 362 Cellular and Molecular Biology			
CHEM 111 Principles of Chem I	core		
CHEM 112 Principles of Chem II	4		
CHEM 371 & 373 Organic Chem I	4		
CHEM 481 Biochemistry	4		
PHYS 111/211 Gen Physics I	4		
PHYS 112/212 Gen Physics II	4		
MATH 170 Calculus	core		
MATH 254 Statistics	4		
NS 380 NS Seminar	1		
<b>TOTAL</b>	<b>45</b>		
<b>ELECTIVES - 23 credits from the following:</b>			
<b>BIOL/CHEM 200/300/400</b>	3		
<b>BIOL/CHEM 200/300/400</b>	4		
<b>BIOL/CHEM 300/400</b>	4		
<b>BIOL/CHEM 300/400</b>	4		
<b>BIOL/CHEM 300/400</b>	4		
<b>BIOL/CHEM 300/400</b>	4		
(8 or less credits of Chemistry and 3 or less credits total from courses ending in X94, X95, X96, or X99.)			
<b>TOTAL</b>	<b>23</b>		

GENERAL ELECTIVES	REQ	COMP	NEED
<b>TOTAL</b>	<b>22</b>		

SUMMARY	REQ	COMP	NEED
GENERAL EDUCATION	38		
MAJOR	45		
PROGRAM CREDITS	23		
GENERAL ELECTIVES	22		
LANGUAGE (if BA)			
<b>TOTAL</b>	<b>128</b>		