



Student Progress Checklist  
Student ID#

# Requirements for Bachelor of Science In Biology

Effective July 1, 2011  
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**FOR ADVISING PURPOSES ONLY  
SEE COLLEGE CATALOG FOR DEGREE REQUIREMENTS**

The Bachelor of Science in Biology degree has five basic curricular components: (a) the lower-division, general education requirements, excluding chemistry, physics, and math, which are included in degree requirements (22 credits); (b) the chemistry, physics, and math requirements (35 credits); (c) the biology major core courses (31 credits); (d) the upper-division biology elective courses (22 credits); and (e) elective credits (12 credits).

<b>General Education Requirement</b> – complete the general education requirements listed in the Associate of Science or Associate of Art degrees, or the equivalent (other than chemistry, physics, and math).		
<b>TOTAL GENERAL EDUCATION CREDITS, OTHER THAN CHEMISTRY, PHYSICS, AND MATH:</b>	<b>22</b>	
<b>Chemistry, Physics, and Math Courses</b> – complete the following courses:		
	<b>Credits</b>	<b>Prerequisites and Notes</b>
<input type="checkbox"/> CHEM 1210, Principles of Chemistry I	4	Co/Prereq: Math 1050
<input type="checkbox"/> CHEM 1215, Principles of Chemistry I Lab	1	
<input type="checkbox"/> CHEM 1220, Principles of Chemistry II	4	Chem 1210 & 1215
<input type="checkbox"/> CHEM 1225, Principles of Chemistry II Lab	1	
<input type="checkbox"/> CHEM 2310, Organic Chemistry I	4	Chem 1220 & 1225
<input type="checkbox"/> CHEM 2315, Organic Chemistry I Lab	1	
<input type="checkbox"/> CHEM 2320, Organic Chemistry II	4	Chem 2310 & 2315
<input type="checkbox"/> CHEM 2325, Organic Chemistry II Lab	1	
<input type="checkbox"/> MATH 1210: Calculus I	5	Math 1050 & 1060 OR 1065
<input type="checkbox"/> PHYS 2010, College Physics I	4	Co/Prereq: Math 1060 Students may also fill this requirement by taking PHYS 2210, Engineering Physics I
<input type="checkbox"/> PHYS 2015, College Physics I Lab	1	Students may also fill this requirement by taking PHYS 2215, Engineering Physics I Lab
<input type="checkbox"/> PHYS 2020, College Physics II	4	Prereq: Phys 2010 Students may also fill this requirement by taking PHYS 2220, Engineering Physics II
<input type="checkbox"/> PHYS 2025, College Physics II Lab	1	Students may also fill this requirement by taking PHYS 2225, Engineering Physics II Lab
<b>TOTAL CHEMISTRY, PHYSICS AND MATH CREDITS:</b>	<b>35</b>	<b>Must achieve a grade of “C” or higher in each course ( “C-“ does not count)</b>



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<b>Biology Major Core Courses – complete the following core courses</b>		
	<b>Credits</b>	<b>Prerequisites and Notes</b>
<input type="checkbox"/> BIOL 1610, Principles of Biology I	4	none
<input type="checkbox"/> BIOL 1615, Principles of Biology I Lab	1	
<input type="checkbox"/> BIOL 1620, Principles of Biology II	4	Biol 1610
<input type="checkbox"/> BIOL 1625, Principles of Biology II Lab	1	
<input type="checkbox"/> BIOL 2030, Principles of Genetics	4	Math 1010; Biol 1010 or 1610
<input type="checkbox"/> BIOL 2220, General Ecology	3	Biol 1610 or instructor permit
<input type="checkbox"/> BIOL 2225, General Ecology Lab	1	
<input type="checkbox"/> BIOL 3010, Biological Evolution	3	Biol 1610 & 2030
<input type="checkbox"/> BIOL 3110, Scientific Writing	2	Biol 1610, Engl 2010 (can be concurrent)
<input type="checkbox"/> BIOL 3150, Introduction to Biometry	2	Math 1050
<input type="checkbox"/> BIOL 3155, Introduction to Biometry Lab	1	
<input type="checkbox"/> BIOL 3020, Principles of Cell Biology and	4	Biol 1610; Chem 1220
<input type="checkbox"/> BIOL 3025, Principles of Cell Biology Lab,		
<input type="checkbox"/> <b>or</b>		
<input type="checkbox"/> BIOL 3450, General Microbiology and		
<input type="checkbox"/> BIOL 3455, General Microbiology Lab		
<input type="checkbox"/> BIOL 4910 or 4920, Senior Seminar	1	Biol 1610; Chem 2310 Senior standing; Engl 2010
<input type="checkbox"/> <b>TOTAL BIOLOGY MAJOR CORE CREDITS</b>	<b>31</b>	<b>Must achieve a grade of “C” or higher in each course (“C-“ does not count)</b>



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Upper-Division Biology Elective Courses – complete a number of courses that includes the following:		
	Credits	Prerequisites and Notes
One physiology course with lab chosen from the following: <input type="checkbox"/> BIOL 4500/4505: Comparative Vertebrate Physiology with lab <input type="checkbox"/> BIOL 4600/4605: Plant Physiology with lab	4	Biol 1620; Chem 1220  Biol 1620, 2400; Chem 1220
One organismal biology course with lab chosen from the following: <input type="checkbox"/> BIOL 3200/3205: Invertebrate Zoology with lab, <input type="checkbox"/> BIOL 4200/4205: Plant Taxonomy with lab, <input type="checkbox"/> BIOL 4230/4235: General Parasitology with lab, <input type="checkbox"/> BIOL 4260/4265: Herpetology with lab, <input type="checkbox"/> BIOL 4270/4275: Ichthyology with lab, <input type="checkbox"/> BIOL 4280: Marine Biology <input type="checkbox"/> BIOL 4380/4385: Ornithology with lab, <input type="checkbox"/> BIOL 4410/4415: Mammalogy with lab, <input type="checkbox"/> BIOL 4440/4445: General Entomology with lab,	3-4	Biol 1620 Biol 1610, 2400 Biol 1620; Adv. Standing Biol 1620, 2220 Biol 1620, 2220 Biol 1620/1625, 2220/2225 Biol 1620, 2220 Biol 1620, 2220 (3140 recomm.) Biol 1620, 2220
Plus 14-15 credits of additional upper-division courses in biology, chosen from botany, zoology, microbiology, and/or molecular biology. Students may choose from courses listed above as well as from the following:		
<input type="checkbox"/> BIOL 3000: Rural Health Scholars (2 cr. Max.)		none
<input type="checkbox"/> BIOL 3100: Bioethics	3	Biol 1010 or 1610
<input type="checkbox"/> BIOL 3140/3145: Comparative Vertebrate Anatomy with lab,	4	Biol 1620 (3010 recommended)
<input type="checkbox"/> BIOL 3230: Cadaver Practicum	2	Biol 2320/2325 and Instructor Permission
<input type="checkbox"/> BIOL 3250: Cancer Biology	2	Biol 2030 and instructor permission
<input type="checkbox"/> BIOL 3340/3345: Plant Anatomy with lab,	3	Biol 1620, 2400
<input type="checkbox"/> BIOL 3360/3365: Developmental Biology with lab,	4	Biol 1610 (2030 recommended)
<input type="checkbox"/> BIOL 3460: Biology of Infectious Disease,	3	Biol 1620; Biol 2030 or 3020
<input type="checkbox"/> BIOL 3470: Introduction to Immunology,	3	Biol 3020 or 3450 (Biol 2030 or Chem 3510 recommended)
<input type="checkbox"/> BIOL 4190/4195: Mammalian Histology with lab,	4	Biol 1620 (Biol 3020 recommended)
<input type="checkbox"/> BIOL 4300/4305: Molecular Biology with lab,	4	Biol 2030; Chem 3510
<input type="checkbox"/> BIOL 4350/4355: Animal Behavior with lab,	4	Biol 1620; Adv standing



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<input type="checkbox"/> BIOL 4400: Pathophysiology,	3	Biol 2320; Biol 2420
<input type="checkbox"/> BIOL 4460/4465: Plant Ecology with lab,	3	Biol 2220; Biol 3150
<input type="checkbox"/> BIOL 4810, 4820, 4830: Independent Study in Biology  <i>Students may only count up to 4 credits of BIOL 4810, 4820, 4830, and/or 4930 in any combination toward graduation.</i>	1-4	Advanced standing, Engl 2010, Biol 3110 (can be concurrent), and Instructor Permission
<input type="checkbox"/> BIOL 4930: Senior Thesis  <i>Students may only count up to 4 credits of BIOL 4810, 4820, 4830, and/or 4930 in any combination toward graduation.</i>	1-4	Senior standing; Engl 2010; Departmental permission
<b>TOTAL UPPER-DIVISION BIOLOGY ELECTIVE CREDITS:</b>	<b>22</b>	<b>Must achieve a grade of “C” or higher in each course (“C-“ does not count)</b>
<b>Electives</b> – complete 12 credits of college-level electives:		
<b>TOTAL ELECTIVE CREDITS:</b>	<b>12</b>	In their electives, most pre-health professional students should complete CHEM 3510: Biochemistry. Also, they should take a diversity course.
<b>TOTAL BACCALAUREATE CREDITS:</b>	<b>122</b>	
<input type="checkbox"/> Minimum cumulative GPA (2.00) must be attained to be eligible to graduate		
<input type="checkbox"/> Complete at least 30 semester hours of upper division credit hours from DSC for institutional residency		
<input type="checkbox"/> Complete a total of 40 semester hours of upper division credit hours		
<b>Total Credits Earned:</b>		
<b>Developmental Credits:</b>		
<b>Credits Needed (Total – Developmental):</b>		