



DIXIE STATE
COLLEGE OF UTAH



Requirements for Bachelor of Science In Biology

Effective July 1, 2007
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Student Progress Checklist

Student ID# _____

D. Barr

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 (29 credits); (d) the upper-division biology elective courses (22 credits); and (e) elective credits (12 credits).

General Education Requirement – 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).

TOTAL GENERAL EDUCATION CREDITS, OTHER THAN CHEMISTRY, PHYSICS, AND MATH:	22
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Chemistry, Physics, and Math Courses – complete the following courses:

	Credits	Prerequisites and Notes
<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
TOTAL CHEMISTRY, PHYSICS AND MATH CREDITS:	35	

Dixie State's general graduation requirements are described in this online catalog under the "Advisement and Graduation" link. Those requirements are also available in the College's online policies at <http://www.dixie.edu/humanres/policy/sec5/520.html>.



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Biology Major Core Courses – complete the following core courses		
	Credits	Prerequisites and Notes
<input type="checkbox"/> BIOL 1001, Intro to the Biology Major	1	none
<input type="checkbox"/> BIOL 1610, Principles of Biology I	4	ACT Reading = 19 OR Engl 1470
<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 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"/> or		
<input type="checkbox"/> BIOL 3450, General Microbiology and		Biol 1610; Chem 2310
<input type="checkbox"/> BIOL 3455, General Microbiology Lab		
<input type="checkbox"/> BIOL 4910 or 4920, Senior Seminar	1	Senior standing; Engl 2010
TOTAL BIOLOGY MAJOR CORE CREDITS	30	

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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, 2220 Biol 1620, 2220 Biol 1620, 2220 Biol 1620, 2220 (3140 recommended) 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 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 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
<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 or 4820: Independent Study in Biology	1-4	Advanced standing; Engl 2010; Instructor Permission
<i>Students may only count up to 4 credits of BIOL 4810, 4820, and/or 4930 in any combination toward graduation.</i>		

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<input type="checkbox"/> BIOL 4930: Senior Thesis <i>Students may only count up to 4 credits of BIOL 4810, 4820, and/or 4930 in any combination toward graduation.</i>		
TOTAL UPPER-DIVISION BIOLOGY ELECTIVE CREDITS:	22	
Electives – complete 12 credits of college-level electives:		
TOTAL ELECTIVE CREDITS:	12	In their electives, Pre-health professional students should complete CHEM 3510: Biochemistry. Also, they should take a diversity course.
TOTAL BACCALAUREATE CREDITS:	121	
<input type="checkbox"/> Minimum cumulative GPA 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		
Total Credits Earned:		
Developmental Credits (subtract from total credits earned):		
Credits Needed:		

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