



DIXIE STATE
COLLEGE OF UTAH



Requirements for Bachelor of Science In Biology Secondary Education

Effective July 1, 2008

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Student Progress Checklist

Student ID# _____

D. Bonni

The Bachelor of Science in Biology Secondary Education degree has six 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 (20 credits); (c) the biology major core courses (33 credits); (d) the upper-division biology elective courses (10-16 credits); (e) a lab safety certification course (1 credit); and (f) the secondary education teaching (SET) requirements (39 credits).

General Education Requirement – complete the college General Education requirements, or the equivalent (other than chemistry, physics, and math).		
	Credits	Prerequisites and Notes
TOTAL GENERAL EDUCATION CREDITS, OTHER THAN CHEMISTRY, PHYSICS, AND MATH:	22	Fulfill the social science requirement with either PSY 1100 (Human Development Across the Lifespan) or FCS 1500 (Human Development)
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 or Math 1065
<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"/> MATH 1065: Precalculus/Trigonometry	5	Math 1010 with an earned grade of B or better
<input type="checkbox"/> PHYS 2010, College Physics I	4	Co/Prereq: Math 1060 or Math 1065 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
TOTAL CHEMISTRY, PHYSICS AND MATH CREDITS:	20	
Biology Major Core Courses – complete the following core biology 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 (minimum), BIOL 1010 or BIOL 1610
<input type="checkbox"/> BIOL 2220, General Ecology	3	Biol 1610 or instructor permit

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<input type="checkbox"/> BIOL 2225, General Ecology Lab	1	
<input type="checkbox"/> BIOL 2400, Plant Kingdom	3	Biol 1610
<input type="checkbox"/> BIOL 2405, Plant Kingdom Lab	1	
<input type="checkbox"/> BIOL 2420, Human Physiology	3	Biol 1610
<input type="checkbox"/> BIOL 2425, Human Physiology Lab	1	
<input type="checkbox"/> BIOL 3010, Biological Evolution	3	Biol 1610 & Biol 2030
<input type="checkbox"/> BIOL 3020, Principles of Cell Biology and <input type="checkbox"/> BIOL 3025, Principles of Cell Biology Lab, Or <input type="checkbox"/> BIOL 3450, General Microbiology and <input type="checkbox"/> BIOL 3455, General Microbiology Lab	4	Biol 1610; Chem 1220 Biol 1610; Chem 1220
TOTAL BIOLOGY MAJOR CORE CREDITS	34	
Upper-Division Biology Elective Courses – complete a number of courses that includes the following:		
	Credits	Prerequisites and Notes
One botany course with lab chosen from the following:	3-4	
<input type="checkbox"/> BIOL 3340/3345: Plant Anatomy with lab		Biol 1610, Biol 2400
<input type="checkbox"/> BIOL 4200/4205: Plant Taxonomy with lab		Biol 1610, Biol 2400
<input type="checkbox"/> BIOL 4460/4465: Plant Ecology with lab		Biol 2220, (Biol 3150 recommended)
<input type="checkbox"/> BIOL 4600/4605: Plant Physiology with lab		Biol 1620, Biol 2400; Chem 1220
Two (2) zoology courses with labs chosen from the following:	3-4 each	
<input type="checkbox"/> BIOL 3140/3145: Comparative Vertebrate Anatomy with lab,		Biol 1620, (Biol 3010 recommended)
<input type="checkbox"/> BIOL 3200/3205: Invertebrate Zoology with lab		Biol 1620
<input type="checkbox"/> BIOL 4230/4235: General Parasitology with lab,		Biol 1620; Adv. Standing
<input type="checkbox"/> BIOL 4260/4265: Herpetology with lab,		Biol 1620, Biol 2220
<input type="checkbox"/> BIOL 4270/4275: Ichthyology with lab,		Biol 1620, Biol 2220
<input type="checkbox"/> BIOL 4280: Marine Biology		Biol 1610, Biol 2220
<input type="checkbox"/> BIOL 4350/4355: Animal Behavior with lab		Biol 1620, Adv. Standing
<input type="checkbox"/> BIOL 4380/4385: Ornithology with lab,		Biol 1620, Biol 2220
<input type="checkbox"/> BIOL 4410/4415: Mammalogy with lab,		Biol 1620, Biol 2220 (Biol 3140 recommended)
<input type="checkbox"/> BIOL 4440/4445: General Entomology with lab,		Biol 1620, Biol 2220
Plus 1-4 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 Biol1610
<input type="checkbox"/> BIOL 3360/3365: Developmental Biology with lab,	4	Biol 1610 (Biol 2030 recommended)
<input type="checkbox"/> BIOL 3460: Biology of Infectious Disease,	3	Biol 1620; Biol 2030 or Biol 3020
<input type="checkbox"/> BIOL 3470: Introduction to Immunology,	3	Biol 3020 or Biol 3450 (Biol 2030 or Chem 3510 recommended)

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<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 4400: Pathophysiology,	3	Biol 2320; Biol 2420
<input type="checkbox"/> BIOL 4810 or 4820: Independent Study in Biology <i>Students may only count up to 4 credits of BIOL 4810, 4820, and/or 4930 in any combination toward graduation.</i>	1-4	Junior or Senior standing, Engl 2010, and permission of instructor
<input type="checkbox"/> BIOL 4910 or 4920, Senior Seminar	1	Senior standing or Department Chair permission
<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>	1-4	Senior standing, Engl 2010, and Department Chair permission
TOTAL UPPER-DIVISION BIOLOGY ELECTIVE CREDITS:	10-16	
Lab Safety Certification – complete a 1 credit lab safety course		
LAB SAFETY CERTIFICATION CREDIT:	1	Course will have an SCI prefix
Secondary Education Teaching (SET) Requirements – complete the following (SET) courses:		
	Credits	Prerequisites and Notes
Pre-professional Classes:		

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<input type="checkbox"/> EDUC 1010, Introduction to Education	3	
<input type="checkbox"/> EDUC 2400, Foundation of Multicultural Education & ESL	3	
<input type="checkbox"/> EDUC 2010, Introduction to Exceptionalities	3	
<input type="checkbox"/> EDUC 3110, Educational Psychology (K-12)	3	
<input type="checkbox"/> EDUC 2500, Technology for Educators and Electronic Portfolios	3	
Professional Classes Semester I: (Fall semester) Students must be admitted into the program before taking Professional Classes		Students must verify that 90% of their major course work is completed.
<input type="checkbox"/> SCED 3720, Reading Writing in the Content Areas	3	
<input type="checkbox"/> SCED 4100, Curriculum, Instruction and Assessment with Practicum	3	
<input type="checkbox"/> SCED 4600, Classroom Management with Practicum	3	
<input type="checkbox"/> BIOL 4130: Biology Teaching Methods (or SCED 4700: Content Methods Course if insufficient demand for BIOL 4130)	3	
Professional Classes Semester II: (Spring semester)		
<input type="checkbox"/> SCED 4900, Secondary Student Teaching	10	
<input type="checkbox"/> SCED 4989, Student Teaching Seminar	2	
Total Secondary Education Credits:	39	
TOTAL BACCALAUREATE CREDITS:	126-132	

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<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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