



Student Progress Checklist

Student ID# \_\_\_\_\_

*O'Donnell*

The Bachelor of Science in Biology Secondary Education with Integrated Science degree has seven 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 (28 credits); (d) the upper-division biology elective courses (6-8 credits); (e) a lab safety certification course (1 credit); (f) additional courses to meet the requirements for the integrated science endorsement (11 credits); and (g) the secondary education teaching (SET) requirements (39 credits).

<b>General Education Requirement</b> – complete the college General Education requirements, or the equivalent (other than chemistry, physics, and math).		
	<b>Credits</b>	<b>Prerequisites and Notes</b>
<b>TOTAL GENERAL EDUCATION CREDITS, OTHER THAN CHEMISTRY, PHYSICS, AND MATH:</b>	<b>22</b>	Fulfill the social science requirement with either PSY 1100 (Human Development Across the Lifespan) or FCS 1500 (Human Development)
<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 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
<b>TOTAL CHEMISTRY, PHYSICS AND MATH CREDIT FOR BIOLOGY PORTION OF DEGREE:</b>	<b>20</b>	
<b>Biology Major Core Courses</b> – complete the following core biology courses:		
	<b>Credits</b>	<b>Prerequisites and Notes</b>
<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 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
<input type="checkbox"/> BIOL 2225, General Ecology Lab	1	



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<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	4	Biol 1610; Chem 1220
<input type="checkbox"/> BIOL 3450, General Microbiology and <input type="checkbox"/> BIOL 3455, General Microbiology Lab		Biol 1610; Chem 1220
<b>TOTAL BIOLOGY MAJOR CORE CREDITS</b>	<b>29</b>	
<b>Upper-Division Biology Elective Courses</b> – complete a number of courses that includes the following:		
	<b>Credits</b>	<b>Prerequisites and Notes</b>
One <b>botany</b> 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
One <b>zoology</b> course with lab 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 1620, Biol 2220
<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
<b>TOTAL UPPER-DIVISION BIOLOGY ELECTIVE CREDITS:</b>	<b>6-8</b>	
<b>Lab Safety Certification</b> – complete a 1 credit lab safety course		
<b>LAB SAFETY CERTIFICATION CREDIT:</b>	<b>1</b>	Course will have an SCI prefix



DIXIE STATE  
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## Requirements for Bachelor of Science In Biology Secondary Education with Integrated Science

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Additional Courses for the Integrated Science Endorsement - complete the following physical science courses		
	Credits	Prerequisites and Notes
<input type="checkbox"/> GEO 1080, Introduction to Oceanography	3	
<input type="checkbox"/> GEO 1110, Physical Geology	3	
<input type="checkbox"/> GEO 1115, Physical Geology Lab	1	
<input type="checkbox"/> PHYS 1040, Elementary Astronomy	3	
<input type="checkbox"/> PHYS 1045, Elementary Astronomy Lab	1	
<b>Total Additional Physical Science Courses for the Integrated Science Endorsement:</b>	<b>11</b>	
Secondary Education Teaching (SET) Requirements - complete the following (SET) courses:		
	Credits	Prerequisites and Notes
<b>Pre-professional Classes:</b>		
<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	
<b>Professional Classes Semester I: (Fall semester)</b> 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	
<b>Professional Classes Semester II: (Spring semester)</b>		
<input type="checkbox"/> SCED 4900, Secondary Student Teaching	10	
<input type="checkbox"/> SCED 4989, Student Teaching Seminar	2	
<b>Total Secondary Education Credits:</b>	<b>39</b>	
<b>TOTAL BACCALAUREATE CREDITS:</b>	<b>128 to 130</b>	

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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<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		
<b>Total Credits Earned:</b>		
<b>Developmental Credits (subtract from total credits earned):</b>		
<b>Credits Needed:</b>		

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