



Student Progress Checklist

Student ID# _____

Requirements for Bachelor of Science
In Biology Secondary Education

Effective July 1, 2011

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**FOR ADVISING PURPOSES ONLY
SEE COLLEGE CATALOG FOR DEGREE REQUIREMENTS**

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 (34 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	Prereq: Math 1065 (preferred) or Math 1060; Students may also fill the physics 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	Must achieve a grade of "C" or higher in each course ("C-" does not count)



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Biology Major Core Courses – complete the following core biology courses:		
	Credits	Prerequisites and Notes
<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 1610
<input type="checkbox"/> BIOL 2220, General Ecology	3	Biol 1610, or instructor permission
<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 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 2310 or instructor permission
TOTAL BIOLOGY MAJOR CORE CREDITS	33	Must achieve a grade of "C" or higher in each course ("C-" does not count)
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 4600/4605: Plant Physiology w. 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 3150 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 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 4411/4415: Mammalogy with lab		Biol 1620, Biol 2220, (Biol 3140 recommended)
<input type="checkbox"/> BIOL 4440/4445: General Entomology with lab		Biol 1620, Biol 2220



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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 Biol 1610
<input type="checkbox"/> BIOL 3110: Scientific Writing	2	Engl 2010
<input type="checkbox"/> BIOL 3360: Developmental Biology	3	Biol 1610, (Biol 2030 strongly recommended)
<input type="checkbox"/> BIOL 3365: Developmental Biology Lab	1	Biol 1610, (Biol 2030 strongly 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)
<input type="checkbox"/> BIOL 4190/4195: Mammalian Histology with lab	4	Biol 1620, (Biol 3020 recommended)
<input type="checkbox"/> BIOL 4280: Marine Biology	3	Biol 1620, Biol 2220
<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, 4820, or 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; Instructor Permission
<input type="checkbox"/> BIOL 4910 or 4920: Senior Seminar	1	Senior standing or Departmental 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
TOTAL UPPER-DIVISION BIOLOGY ELECTIVE CREDITS	10-16	Must achieve a grade of "C" or higher in each course ("C-" does not count)

Lab Safety Certification – complete a 1 credit lab safety course

LAB SAFETY CERTIFICATION CREDIT	1	Course will have an SCI or BIOL prefix
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Secondary Education Teaching (SET) Requirements – complete the following (SET) courses:

Pre-Professional (SET) Classes (can be taken anytime before admission into the SET program)	Credits	Prerequisites and Notes
<input type="checkbox"/> EDUC 1010: Foundations/Intro. to Education	3	
<input type="checkbox"/> EDUC 2010: Intro. to Tchng Exceptional Learners	3	
<input type="checkbox"/> EDUC 2400: Fndtns of Multiculti/ESL Learners	3	
<input type="checkbox"/> EDUC 2500: Tech for Educ. / Electronic Portfolios	3	
<input type="checkbox"/> EDUC 3110: Educ. Psychology (K-12)	3	
TOTAL PRE-PROFESSIONAL CREDITS	15	

To take any professional classes listed below, you must be admitted to the Secondary Education Teaching Program (SET) along with these additional requirements:

- a) All Pre-Professional Education classes have been completed.
- b) Students with BS/BA degrees in progress need to have at least 90% of major coursework completed and signed off by the major academic content department advisor.
- c) Students with completed BS/BA or higher degrees need to have their transcripts reviewed by degree content areas.

Professional (SET) Classes Semester I	Credits	Prerequisites and Notes
<input type="checkbox"/> SCED 3720: Reading & Writing in the Content Areas	3	
<input type="checkbox"/> SCED 4100: Curriculum, Instruction, and Assessment	3	Course has Practicum
<input type="checkbox"/> SCED 4600: Classroom Management	3	Course has Practicum
<input type="checkbox"/> SCED 4700: Content Methods Course or BIOL 4130: Biology Teaching Methods (if there is sufficient demand for BIOL 4130)	3	Course has Practicum
<i>Note: Content Methods Courses may be different in their subject content areas</i>		
TOTAL CREDITS FOR SET SEMESTER I	12	

Professional (SET) Classes Semester II	Credits	Prerequisites and Notes
<input type="checkbox"/> SCED 4900: Secondary Student Teaching	10	All major and secondary education classes, and a successful score on the Praxis II content area exam must be completed prior to student teaching.
<input type="checkbox"/> SCED 4989: Student Teaching Seminar	2	

TOTAL CREDITS FOR SET SEMESTER II	12	
TOTAL SET PROGRAM CREDITS	39	
TOTAL BACCALAUREATE CREDITS	125-131	

- Minimum cumulative GPA must be attained to be eligible to graduate (2.75 or higher, and 3.00 GPA or higher in pre-professional education classes with no D credit).
- Complete at least 30 semester hours of upper-division credit hours from DSC for institutional residency.
- Complete at least 40 semester hours of upper-division credit.

Total Credits Earned: _____ **Developmental Credits:** _____ **Credits Needed (total – devel.):** _____