

**Bloomsburg University - Department of Educational Studies and Secondary Education
Bachelor of Science in Secondary Education and Biology**

Courses	Cr.	Taken:	Courses	Cr.	Taken:
Biology Courses Required for Major	35		General Education - Total Credits:	38	
50.114 Concepts in Biology I	4	_____	Communication² - 9 Credits		
50.115 Concepts in Biology II	4	_____	1) 20.101 Composition 1	3	_____
50.242 Microbiology	4	_____	2) 50.290 Writing in Biology	3	_____
50.271 Cell Biology	4	_____	3) 25.103 Public Speaking or 25.104 Interpersonal Comm.	3	_____
50.332 Genetics	3	_____	Quantitative - 3 Credits		
50.333 Molecular Biology (3) or 52.341 Biochemistry I (4)	3	_____	1) 53.141 Introduction to Statistics	3	_____
50.351 Ecology	3	_____	Values - 3 Credits		
50.479 Physiology Laboratory	1	_____	60.406 Multicultural Education	3	_____
<i>Physiology Elective; choose one of the following 5 courses:</i>	3		Fitness - 2 Credits		
50.472 Animal Cell Phys; 50.474 Vertebrate Systems Phys;			1) _____	1	_____
50.477 Plant Physiology; 50.478 Microbial Phys; 50.480 Comp Animal Phys			2) _____	1	_____
<i>Field Course Elective; choose one of the following 6 courses:</i>	3		Group A (Humanities)² - 9 additional Credits		
50.200 Dendrology; 50.252 Field Zoology; 50.253 Freshwater Biology;			1) 25.103 Public Speaking or 25.104 Interpersonal Comm.		
50.263 Field Botany; 50.457 Entomology; 50.459 Ornithology			2) _____	3	_____
<i>Biology Elective (minimum 3 credits)</i>			3) _____	3	_____
(Consult advisor; 50.340 Evolution strongly recommended)			4) Select one Language course from the following:	3	_____
1) _____	3	_____	10.101 French I; 11.101 German I; 12.101 Spanish I; 13.102 Russian II		
2) _____			14.102 Italian II; 18.102 Latin II; 19.102 Chinese II		
Required Collateral Science Courses	19		Group B (Social Sciences) - 12 Credits		
Select one Earth Science course from the following:	3		1) 45.211 Prin. Sociology	3	_____
51.100 Environmental Geology; 51.120 Physical Geology;			2) 48.101 General Psychology	3	_____
51.130 Historical Geology; 51.255 Meteorology; 51.259 Oceanography			3) 48.212 Adolescence	3	_____
52.115 Chemistry for Sciences I ¹	4	_____	4) 70.101 Introduction to Exceptional Individuals	3	_____
52.116 Chemistry for Sciences II	4	_____	Group C (Nat. Sci. & Math) - 0 Additional Credits		
52.230 Fundamentals of Organic Chemistry	4	_____	Satisfied by major requirements 50.114, 50.115, 52.115, 54.111		
54.111 Introductory Physics	4	_____	TOTAL CREDITS FOR PROGRAM	121	
Courses Required for Secondary Education	29		Optional University seminar (09.100)	1	_____
60.204 Educational Computing & Technology	3	_____	Total credits with Seminar	122	
or 60.350 Instructional Design Systems			Two Approved Diversity Courses (satisfied by major requirements)		
or 60.351 Virtual Learning Communities			Satisfied by 70.101 and 60.406 required by major		
60.206 Teachers, Schools and Society	2	_____	Note 1: A placement test is required for 52.115; students who need the prerequisite		
60.251 Psychological Foundations of Education	3	_____	course (52.101 Intro to Chemistry) will need more than 124 credits to complete the program.		
60.291 Principles of Teaching	3	_____	Note 2: Students must count one Communications course under the Group A category,		
60.311 Classroom Measurement & Assessment	3	_____	as allowed by General Education Policy, to complete program within 121 credits.		
60.453 Teaching of Science	3	_____	This program shows 25.103 or 25.104 double counted as an example.		
60.497 Teaching in Education: First Experience	6	_____			
60.498 Teaching in Education: Second Experience	6	_____			