

Bloomsburg University - Department of Biology
Bachelor of Science in Biology - Biotechnology Option

Courses	Cr.	Taken:	Courses	Cr.	Taken:
Biology Courses Required for Major	75		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 (or 20.201 Consult Advisor)	3	_____
50.271 Cell Biology	4	_____	3) ³	3	_____
50.332 Genetics	3	_____	Quantitative² - 0 Additional Credits		
50.333 Molecular Biology	3	_____	Satisfied by 1 Math course required for major		
50.445 Methods in Biotechnology	3	_____	Values² - 3 Credits		
50.481 Senior Biology Seminar	1	_____	1) 50.254 Social Implications of Biology	3	_____
50.479 Physiology Laboratory	1	_____	Fitness - 2 Credits		
Physiology Requirement; choose one of the following:	3		1)	1	_____
50.472 Animal Cell Phys; 50.474 Vertebrate Systems Phys;			2)	1	_____
50.477 Plant Physiology; 50.478 Microbial Phys; 50.480 Comp Animal Phys			Group A (Humanities) - 12 Credits		
Biology Electives - Consult advisor for list of qualified courses	11		1)	3	_____
1) _____		_____	2)	3	_____
2) _____		_____	3)	3	_____
3) _____		_____	4)	3	_____
4) _____		_____	Group B (Social Sciences) - 12 Credits		
Mathematics Requirement - Select 1 option (6 credits)	6		1)	3	_____
1) 53.123 Essentials of Calculus and 53.141 Intro. Statistics		_____	2)	3	_____
2) 53.125 Calculus I and 53.141 Intro. Statistics		_____	3)	3	_____
3) 53.125 Calculus I and 53.126 Calculus II		_____	4)	3	_____
(48.160 Basic Statistics may be substituted for 53.141)		_____	Group C (Nat. Sci. & Math) 0 Additional Credits		
Chemistry Requirement - 20 Credits			Satisfied by Major Requirements: 50.114, 50.115, 52.115, 2nd Math Course		
52.115 Chemistry for the Sciences 1	4	_____	Free Electives (varies based on course choices)^{1,2}	6	
52.116 Chemistry for the Sciences 2	4	_____	1)	3	_____
52.230 Fund Organic Chemistry	4	_____	2)	3	_____
52.341 Biochemistry	4	_____	3)		_____
52.442 Biochemistry 2	4	_____	4)		_____
Physics Requirement - Select 1 option (8 credits)	8		Optional University seminar (09.100)	1	_____
1) 54.111 Intro Physics I & 54.211 Intro. Physics II		_____	TOTAL CREDITS FOR PROGRAM	120	
2) 54.211 General Physics I & 54.212 General Physics II		_____	Two Approved Diversity Courses:⁴		
			1)		_____
			2)		_____

Note 1: A placement test is required for 52.115; 52.101 may be required as a prereq.
Note 2: A maximum of 1 course used for Communication, Quantitative or Values requirement (other than Biology Major Courses) may be used for Group A, B, or C.

Note 3: A foreign Language or 25.103 Public Speaking is recommended by department.
Note 4: Two of the Major, General Ed. or Elective Courses selected must also qualify as Diversity Courses; see approved list in catalog and consult advisor.