

MILLERSVILLE UNIVERSITY

Student Name: _____ Student ID # _____

DEGREE: BS	MAJOR REQUIREMENTS FOR A BS DEGREE IN BIOLOGY
MAJOR: BIOL	Total credit hours required: 120.0 minimum
OPTION:	

REQUIREMENTS AND POLICIES FOR THE BS BIOLOGY MAJOR

A. Policies for Admission to the Major

1. New students (freshmen and transfers) must be admitted to the Biology major by the Office of Admissions upon admission to the University.
2. Admission of Millersville University students to the Biology major (from other departments or undeclared status) requires that the student is in satisfactory academic standing as described in the Undergraduate catalog. Students who were dropped from a Biology major also must satisfy the Biology Retention in the Major criteria before being readmitted to a Biology major.
3. Non-degree and continuing education students must be admitted to the Biology major by the Office of Admissions.

B. Policies for Retention in the Major

1. University requirements for retention must be met.
2. All Biology majors must earn grades of C- (C minus) or higher in all core courses (BIOL 101, 211, 221, 343, 362, 364) required for their option.
3. The requirements stated above must be satisfied before completion of 90 Millersville University credit hours.
4. Millersville University students changing majors, or Biology majors changing options within the Biology major, must satisfy the above requirements prior to completion of 45 additional Millersville University credit hours. Note: Students who desire to change their major to Biology must refer to the Biology department's Admission to the Major Policy. Those transferring into the major may substitute BIOL 100 for BIOL 101 if they earn a grade of B- (B minus) or higher in this course.
5. Transfer students with 60 credit hours or more must satisfy the above requirements prior to completion of 45 Millersville University credit hours. Transfer students with fewer than 60 credits should refer to the policy for all other majors (part 3 above).
6. Any students failing to meet the above requirements will be dropped from the Biology major. Students who wish to re-enter the major, must follow the requirements stipulated in part 4 above.

C. Policies for Completion of the Major

1. Completion of all University curricular requirements.
2. ENGL 319, Science Writing, is the recommended course for the Upper Level Writing Requirement under the General Education Curriculum Requirements.

Note to the student: *This form is provided as a guide. It is your responsibility to consult regularly with your advisor to be aware of changes and curriculum details which are not incorporated on this form.*

MAJOR SEQUENCE AND DEGREE REQUIREMENTS

Major: **BS BIOLOGY**

Option:

Major Field Requirements: **43.0 credits**

Other Requirements: **35.0-39.0credits**

When applicable, up to six of the **REQUIRED RELATED** courses may be credited toward the Liberal Arts Core subject to normal distribution rules.

Course No.	Short Title	C.H.	Grade	Course No.	Short Title	C.H.	Grade
REQUIRED BIOLOGY COURSES (25.0-26.0 credits)				REQUIRED RELATED (35.0 - 39.0 credits)			
BIOL 101	Foundations of Biology	4.0	_____	Chemistry (20.0 credits)			
BIOL 211	Concepts of Zoology	4.0	_____	CHEM 111*	Introductory Chemistry I	4.0	_____
BIOL 221	Concepts of Botany	4.0	_____	CHEM 112*	Introductory Chemistry II	4.0	_____
BIOL 343	Ecology & Evolution	4.0	_____	CHEM 231*	Organic Chemistry I	4.0	_____
BIOL 362	Cell & Development	4.0	_____	CHEM 232*	Organic Chemistry II	4.0	_____
BIOL 364	Genetics & Molecular Biology	4.0	_____	CHEM 326	Biochemistry I	4.0	_____
--AND--				*Must earn a C- or better in these CHEM courses before completing CHEM 326.			
BIOL 470	Biology Colloquium	1.0-2.0	_____	Note: Those wishing to complete a Chemistry minor must complete CHEM 265 (Quantitative Analysis) in addition to those CHEM courses listed.			
--or--							
BIOL 472	Seminar in Biology	1.0-2.0	_____				
BIOLOGY ELECTIVES (17.0-18.0 credits)				Mathematics & Computer Science (7.0-9.0 credits)			
In consultation with your advisor, choose additional biology courses approved for the major to bring total biology credits to 43.0. A minimum of 12 elective credits must be at the 300-level or higher and approved for the major.				MATH 161 Calculus I 4.0 _____			
BIOL _____	_____	_____	_____	--or--			
BIOL _____	_____	_____	_____	MATH 163 Honors Calculus 5.0 _____			
BIOL _____	_____	_____	_____	--AND--			
BIOL _____	_____	_____	_____	MATH* _____			
BIOL _____	_____	_____	_____	--or--			
BIOL _____	_____	_____	_____	CSCI* _____ 4.0 _____			
BIOL _____	_____	_____	_____	*Note: Only MATH courses numbered 160 or above OR CSCI courses numbered 140 or above may be used to fulfill these requirements.			
BIOL _____	_____	_____	_____	Physics (8.0 - 10.0 credits)			
BIOL _____	_____	_____	_____	PHYS 131 Physics I with Algebra 4.0 _____			
BIOL _____	_____	_____	_____	PHYS 132 Physics II with Algebra 4.0 _____			
BIOL _____	_____	_____	_____	--OR--			
BIOL _____	_____	_____	_____	PHYS 231 Physics I with Calculus 5.0 _____			
BIOL _____	_____	_____	_____	PHYS 232 Physics II with Calculus 5.0 _____			
				General Electives (as necessary)			

*Note: Those planning to apply to graduate or professional school should inquire about specific admissions requirements for the program of their choice.