MILLERSVILLE UNIVERSITY

Student Name:	Student ID #								
DEGREE: BS MAJOR: BIOL OPTION: PREM	MAJOR REQUIREMENTS FOR A BS DEGREE IN BIOLOGY: PRE-MEDICAL PROFESSIONS Total credit hours required: 120.0 minimum								
REQUIREMENTS AND POLICIES FOR THE BS BIOLOGY MAJOR									
 A. Policies for Admission to the Major New students (freshmen and transfers) must be admitted to the Biology major by the Office of Admissions upon admission to the University. Admission of Millersville University students to the Biology major (from other departments or undiclared 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. 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 University requirements for retention must be met. 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. The requirements stated above must be satisfied before completion of 90 Millersville University credit hours. Millersville University students changing majors, or Biology majors changing options within the Biology department's Admission to the Major Policy. Those transferring into the major may substitute BIOL 100 or BIOL 101 if they earn a grade of B- (B minus) or higher in this course. 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 or all other majors (part 3 above). Any students failing to meet the above requirements. E. Policies for Completion of the Major C. Policies for Completion of the Major Any students failing to meet the above requirements. ENGL 319, Science Writing, is the recommended course for the Upper Level Writing Requirement under the General Education Curriculum Requ									

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: PRE-MEDICAL PROFESSIONS Major Field Requirements: 43.0 credits Other Requirements: 35.0-37.0credits

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	Э.	Short Title	C.H.	Grade
REQUIRED BIOLOGY COURSES (25.0-26.0 credits)			REQUIRED RELATED (35.0-37.0 credits)					
			Chemistry (20.0 credits)					
	Foundations of Biology	4.0				Introductory Chemistry I	4.0	
	Concepts of Zoology	4.0		CHEM	112*	Introductory Chemistry II	4.0	
	Concepts of Botany	4.0				Organic Chemistry I	4.0	
	Ecology & Evolution	4.0				Organic Chemistry II	4.0	
	Cell & Development	4.0		CHEM	326	Biochemistry I	4.0	
	Genetics & Molecular Biology	•		*Must a	orn o	C- or better in these CHEN	1	
BIOL 472	Seminar in Biology	1.0-2.0)				l courses	
				belore	compi	leting CHEM 326.		
				Note:	Stude	ents may complete a C	hemistry	or
Pre-profess	sional Courses (6.0 - 8.0 cre	dits)				minor with the addition of		
-		-				7 & 328, respectively.		
BIOL 254	Human A & P I	4.0						
BIOL 255	Human A & P II	4.0						
OR				Matha		(7.0 are dita)		
BIOL 318		3.0		Mather	natics	s (7.0 credits)		
BIOL 435	Animal Physiology	3.0		MATH	161	Calculus I	4.0	
				MATH	235	Survey of Statistics	3.0	
BIOLOGYE	LECTIVES (9.0-12.0 credits)			OR		,	5.0	
	tal BIOL credits to 43)			BIOL	375*	Biometry	3.0	
					515	ыотнецу		
BIOL 300	Biology Co-Op	3.0		*Credit	s for B	BIOL 375 do not count towa	rds Bioloa	IV
BIOL 352	Nutritional Science	3.0		major r			lao Biolog	9
BIOL 363	Medical Microbiology	3.0		Inajor I	oquilo			
BIOL 415	Mammalogy	3.0						
BIOL 417	Parasitology	3.0						
BIOL 437	Endocrinology	3.0						
BIOL 438	Neurobiology	3.0		Physic	cs (8.0	0-10.0 credits)		
BIOL 454	Immunology	2.0		PHYS	131	Physics I with Algebra	4.0	
BIOL 461	Microbiology	3.0	<u> </u>			Physics II with Algebra	4.0	
BIOL 462	Molecular Biology	4.0		OR		,		
BIOL 463	Virology	3.0		PHYS	231	Physics I with Calculus	5.0	
BIOL 465	Developmental Biology	3.0				Physics II with Calculus	5.0	
BIOL 467	Human Genetics	3.0				,		
BIOL 498/	Independent Study/	1.0-3.0						
499	Thesis							
				Sugge	sted C	General Education Course)S	
*Note: Students interested in Veterinary School are			PSYC 100, PSCY 227/228, PHIL 100 and SOCI 101 are					
						d for students planning to t		
	to take BIOL 318 & 435; stude				lionae			0,
	ol are encouraged to take BIC							
	s interested in Pharmacy prog							
	61 & 454; students interested							
	ograms should take BIOL 461		nd an					
	3 credits of microbiology cours	ses or						
independent	t study.							
						BIOL-	\\/in	ter 2020