MILLERSVILLE UNIVERSITY

Student Name:	Student I.D.#				

DEGREE: BS MAJOR REQUIREMENTS FOR A BS DEGREE IN

MAJOR: BIOL BIOLOGY: PRE-OPTOMETRY

OPTION: POPT Total credit hours required: 120.0 minimum

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, 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 312, Technical Writing, is the recommended course for the Upper Level Writing Requirement under the General Education Curriculum Requirements.
- D. Admission to the Pennsylvania College of Optometry at Salus University is competitive and is not guaranteed.

Note to the student: This form is provided as a guide. It is your responsibility to consult regularly with your adviser 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-OPTOMETRY**

Major Field Requirements: **46.0-47.0 credits** Other Requirements: **35.0-39.0 credits**

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

Course N	10.	Short Title	C.H.	Grade	Q.P.	Course No) .	Short Title	C.H.	Grade	Q.P.
REQU		BIOLOGY COURSE	•	redits)			RE	QUIRED RELATED (35.0-39.0	credits)	
BIOL		Foundations of Biolo	0,			Chemis	stry (20.0 credits)			
BIOL	211	Concepts of Zoolog	•					Intro to Chemistry I	4.0		
BIOL	362	•						Intro to Chemistry II	4.0		
BIOL	364	Genetics & Mol. Bio	logy 4.0					* Organic Chemistry I			
REQUI	RED F	PRE-OPTOMETRY CO	OURSES	(7.0-8.0	credits)			Organic Chemistry I			
BIOL	375	Biometry	3.0					Biochemistry I	4.0		
BIOL	461	General Microbiolog						C- or better in these	CHEM c	ourses be	efore
BIOL	472	Seminar in Biology	1.0-2	2.0			_	CHEM 232	O		
								wishing to complete a			
OPTO	METR	Y CLINICAL EDUCA	TION (23	3.0 credi	ts)			HEM 265 (Quantitative istry courses listed.	Analysis	s) in addit	ion to
		etion of one year at th						•	<i>(</i> - -		
	-	at Salus University,				Mathen	natic	s & Computer Scien	ce (7.0 -	9.0 credi	ts)
		ard the B.S. degree in	n Biology	with the	Pre-	MATH	161	Calculus I	4.0		
Optom	-	•						or			
Penns	ylvania	a College of Optomet	try at Sali	us Unive	rsity	IMATH 1		Honors Calculus	5.0		
		23.0 credits]		MATH*	•	AND			
						INCLL	—	or			
						CSCI*		OI.			
						*Note:	Only	MATH courses numb	ered 160	or above	OR
						CSCI c	ours	es numbered 140 or a	bove ma	y be used	to fulfill
						these r	equir	rements.			
						Physic	s (8.	0 - 10.0 credits)			
						PHYS	131	Physics I with Algebr	a 4.0		
						PHYS	132	Physics II with Algeb	ra 4.0		
								or			
								Physics I with Calcul			
						PHYS	232	Physics II with Calcu	lus 5.0		·
						Recom	men	ded Psychology Cou	ırse (G3)	
						PSYC	100	General Psychology	3.0		
						*Note: PSYC 100 will count towards the G3 general educa-					
					tion req	uiren	nent.				
Gener							eneral Electives (as necessary)				