MAJOR SEQUENCE AND DEGREE REQUIREMENTS

Major: **BS BIOLOGY**
Option: **OPTOMETRY**
Major Field Requirements: **46.0 credits**
Other Requirements: **35.0-38.0 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 No.	Short Title	C.H.	Grade	Q.P.
REQUIRED BIOLOGY COURSES (16.0 credits)				
BIOL 101	Foundations of BIOL	4.0		
BIOL 211	Concepts of Zoology	4.0		
BIOL 362	Cell & Development	4.0		
BIOL 364	Genetics & Mole BIO	4.0		
REQUIRED OPT COURSES (7 credits)				
BIOL 375	Biometry	3.0		
BIOL 461	General Microbiology	3.0		
BIOL 472	Seminar in BIOL	1.0		

CLINICAL EDUCATION (23.0 credits)

Upon completion of one year at the Pennsylvania College of Optometry, 23.0 credit hours will be credited toward the B.S. degree in Biology with the Optometry Option.

Pennsylvania College of Optometry 23.0 ☐

Course No.	Short Title	C.H.	Grade	Q.P.
REQUIRED RELATED (35.0-38.0 credits)				
Chemistry (20.0 credits)				
CHEM 111	Intro to Chem I	4.0		
CHEM 112	Intro to Chem II	4.0		
CHEM 231*	Organic Chem I	4.0		
CHEM 232	Organic Chem II	4.0		
CHEM 326	Biochemistry I	4.0		

*Must earn a C- or better in CHEM 231 before completing CHEM 232

NOTE: Those wishing to complete a Chemistry minor must complete CHEM 265 (Quantitative Analysis) in addition to those Chemistry courses listed above.

Mathematics & Computer Science (7.0 - 9.0 credits)

MATH 161	Calculus I	4.0		
	---- ---- or ---- ----			
MATH 163	Honors Calculus	5.0		
	---- ---- AND ---- ----			
MATH* ___	_____	___		
	---- ---- or ---- ----			
CSCI** ___	_____	___		

*Note: Only MATH courses numbered 160 or above may be used to fulfill these requirements.

**Numbered CSCI 140 or above.

Physics (8.0 - 10.0 credits)

PHYS 131	Physics I with Algebra	4.0		
PHYS 132	Physics II with Algebra	4.0		
	---- ---- or ---- ----			
PHYS 231	Phys I with Calculus	5.0		
PHYS 232	Phys II with Calculus	5.0		

General Education Course (G3)

PSYC 100	General Psychology	3.0		

General Electives (as necessary)

_____	_____	____	____	____
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