

BIOLOGY, B.S. - OPTOMETRY OPTION

Major in Biology, BS

Code	Title	Hours
CORE COURSES (C- or higher required)		16
Foundations of Biology - See Appendix 1		
BIOL 211	Concepts of Zoology	
BIOL 362	Cell and Developmental Biology	
BIOL 364	Foundations of Genetics & Molecular Biology	
Option in Pre-Optometry - See separate block		
Total Hours		16

Appendix 1. Foundations of Biology

Code	Title	Hours
Foundations of Biology C- or Higher		4
BIOL 101	Foundations of Biology	

Concentration in Pre-Optometry

Code	Title	Hours
REQUIRED PRE-OPTOMETRY COURSES		9
BIOL 375	Biometry	
BIOL 361	Microbiology	
BIOL 472	Seminar In Biology	
OPTOMETRY CLINICAL EDUCATION		23
Upon completion of one year at Pennsylvania College of Optometry, 23 credits will be credited toward the B.S. degree in Biology with the Optometry option.		
Total Hours		32

Req Related for Biology, BS

Code	Title	Hours
For Biology Majors the G2 block of the Liberal Arts Core will be fulfilled by your required related coursework.		

CHEMISTRY

A C- or higher in CHEM 111 and 112 is a pre-requisite for CHEM 235.
A C- or higher in CHEM 231 is a pre-requisite for CHEM 232. Students interested in graduate or professional school should take CHEM 231 and 232.

CHEM 111	Introductory Chemistry 1	4
CHEM 112	Introductory Chemistry 2	4
Organic Chemistry I (C- minimum) and II		8
CHEM 231	Organic Chemistry 1	
CHEM 232	Organic Chemistry 2	
CHEM 326	Biochemistry 1	4

MATHEMATICS AND COMPUTER SCIENCE

Calculus I or Honors Calculus - Choose 1 of the following:		4-5
MATH 161	Calculus 1	
MATH 163H	Honors Calculus 1	

Addl Mathematics or Computer Science Electives - Choose 1 class from:

Any CSCI 140-599 course(s)

Any MATH 160-599 course(s)

Note: This requirement may not be satisfied with CSCI 101, CSCI 111, or CSCI 121.

PHYSICS

undefined - Choose 1 of the following options 1-2: 8-10

Option 1. Physics with Algebra

PHYS 131 Physics 1 with Algebra

PHYS 132 Physics 2 with Algebra

Option 2. Physics with Calculus

PHYS 231 Physics 1 with Calculus

PHYS 232 Physics 2 with Calculus

Total Hours 32-35