

**CLARION UNIVERSITY OF PENNSYLVANIA**  
**College of Arts & Sciences**

**Minor\*: Biology**  
**Molecular/Cellular/Organismal**  
**Biology**

Name \_\_\_\_\_  
 Student ID# \_\_\_\_\_ Advisor \_\_\_\_\_  
 CUP Entrance Date \_\_\_\_\_ Program Entry Date \_\_\_\_\_

\*\*\*\*\*

**REQUIREMENTS FOR MINOR IN Biology: Cellular/Organismal Biology: 18 – 19 CREDITS**

	<u>CR.</u>	<u>GR.</u>	<u>SEMESTER</u> <u>COMPLETED</u>
<b>1. Required Courses (15 credits)</b>			
BIOL 155: Principles of Biology I (Lec)	3	_____	_____
BIOL 165: Principles of Biology I (Lab)	1	_____	_____
BIOL 203: Cell Biology	3	_____	_____
BIOL 341: General Microbiology	4	_____	_____
BIOL 483: Molecular Biology	4	_____	_____
<b>2. Elective Courses (3-4 credits)</b>			
BIOL 305 General Zoology	3	_____	_____
BIOL 306 General Botany	3	_____	_____
BIOL 307 General Mycology	3	_____	_____
BIOL 382: Evolution	3	_____	_____
BIOL 404 Genomic and Bioinformatics	3	_____	_____
BIOL 430 Biology of Cancer	3	_____	_____
BIOL 440 Environmental Microbiology	3	_____	_____
BIOL 444: Immunology	4	_____	_____
BIOL 446: Pathogenic Microbiology	4	_____	_____
BIOL 450: Cell Physiology	4	_____	_____
BIOL 459 Physiological Ecology	3	_____	_____
BIOL 460: Comparative Vertebrate Anatomy	3	_____	_____
BIOL 464: Developmental Biology	3	_____	_____
BIOL 485: Biotechnology	4	_____	_____
BCHM 453 Biochemistry I	3	_____	_____
BCHM 454 Biochemistry II	3	_____	_____

\* PHSC 111: Basic Physical Science: Chemistry or CHEM 153: General Chemistry I is strongly recommended.  
**This course selection will be done by advisement and will fulfill the General Education requirements of Section IIA.**

\*\* To officially add/change/drop a minor - a "Change of Status" form needs to be submitted to the minor department.  
 Signatures (upon completion of the minor requirements):

\_\_\_\_\_  
 Minor Advisor \_\_\_\_\_  
Date

\_\_\_\_\_  
 Department Chairperson \_\_\_\_\_  
Date

No changes have been made since Fall 2014.