

Biochemistry (B.A.)
(Department of Chemistry and Biochemistry)

Major Requirements

<u>Major Courses</u>	<u>Credits</u>	<u>Semester Completed</u>
[CHEM 105] General Chemistry I	4	
[CHEM 106] General Chemistry II	4	
[CHEM 309] Organic Chemistry I	4	
[CHEM 310] Organic Chemistry II	4	
[CHEM 410] Biochemistry I	4	
[CHEM 412] Biochemistry II	4	
[CHEM 221] Chemical Analysis I	4	
[CHEM 390] Junior Chemistry Seminar	1	
[CHEM 490] Senior Chemistry Seminar	1	
<i>One of the following:</i>	3	
[CHEM 337] Physical Chemistry I (3)		
[CHEM 409] Advanced Organic Chemistry (3)		
[CHEM 495] Capstone: Natural Sciences	3	
[BIOL 160] Molecular and Cellular Biology	4	
<i>One of the following:</i>	3	
[PHIL 101] Problems in Philosophy (3)		
[PHIL 102] History of Philosophy (3)		
[MATH 111] Calculus I	4	
<i>One of the following:</i>	3 or 4	
[MATH 112] Calculus II (4)		
[STAT 269] Introductory Statistics (3)		
<i>One set of the following:</i>	8	
[PHYS 201] and [PHYS 202] Introductory Physics I and II		
[PHYS 211] and [PHYS 212] General Physics I and II		
6-8 credits electives from the following:	6-8	
[BIOL 260] Genetics and Development (3)		
[BIOL 360] Topics in Biology: Medicinal Plants (3)		
[BIOL 382] Microbiology for Health Professions (4)		
[BIOL 385] Physiology (4)		
[BIOL 386] Human Anatomy (4)		
[BIOL 387] Neuroscience (3)		
[BIOL 412] Cell Biology (4)		
[BIOL 413] Molecular Biology (4)		
[BIOL 417] Molecular Genetics		
[BIOL 418] Introduction to Immunology (4)		
[NUTR 222] Nutrition Theory (3)		
[NUTR 322] Nutrition through the Life Cycle (3)		
[HEXS 215] Chronic Disease and Exercise (3)		
[HPED 322] Exercise Physiology (3)		
[HEXS 415] Advanced Exercise Physiology (3)		
[CHEM 321] Chemical Analysis II (4)		

All of the courses in this major are vital to our program. If you plan to study abroad, attend the Philadelphia campus, or graduate early, you must talk to your advisor early and make plans to take the required courses when they are offered. Directed study will not be offered for any lab courses, and will only be granted in extreme circumstances for non-lab courses.

General Education requirements on next page

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<u>Courses</u>	<u>Credits</u>	<u>Semester Completed</u>
First Year Seminar	3	
Oral Communications	3	
Created and Called for Community	3	
Mathematical Sciences ([MATH 111])	3 or 4	<u>met by major</u>
Laboratory Science ([BIOL 160] or [CHEM 105])	3 or 4	<u>met by major</u>
Science, Technology & the World		<u>waived</u>
Two of the following:	6	
Social Science (3 credits)		
European History (3 credits)		
United States History (3 credits)		
Literature	3	
Philosophy and Religion ([PHIL 101] or [PHIL 102])	3	<u>met by major*</u>
Arts	3	
Language/Cross Cultural		
First Semester of Language	3	
Second Semester of Language	3	
Third Semester of Language or Cross Cultural	3	
Non-Western Studies	2 or 3	
Bible	3	
Christian Beliefs	3	
Health and Physical Fitness		
Introduction to Wellness	2	
Activity Course	1	
One of the following:	3	
Ethics (3 credits)		
World Views (3 credits)		
Pluralism in Contemporary Society (3 credits)		
Writing Enriched Course		

SUMMARY OF DEGREE REQUIREMENTS

General Education	47-48*
Major Requirements	61-64
Free Electives	11-15
Total	123

*Philosophy is not counted against the curricular parameters for the major.

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