

Molecular Biology
(Department of Biological Sciences)

Major Requirements

<u>Major Courses</u>	<u>Credits</u>	<u>Semester Completed</u>
[BIOL 160] Molecular and Cellular Biology	4	
[BIOL 161] Animal Form and Function	3	
[BIOL 162] Plant Form and Function	3	
[BIOL 260] Genetics and Development	3	
[BIOL 412] Cell Biology	4	
[BIOL 413] Molecular Biology	4	
[BIOL 417] Molecular Genetics	4	
[BIOL 495] Capstone: Natural Sciences	3	
<i>Six to eight credits from the following:</i>	6-8	
[BIOL 248] Animal Behavior (3)		
[BIOL 262] Ecology and Adaptation (4)		
[BIOL 313] Developmental Biology (3)		
[BIOL 321] Mycology (4)		
[BIOL 332] Plant Taxonomy (4)		
[BIOL 356] Ornithology (4)		
[BIOL 358] Herpetology (4)		
[BIOL 325] Medicinal Botany (3)		
[BIOL 382] Microbiology for Health Professions (4)		
[BIOL 385] Physiology (4)		
[BIOL 386] Human Anatomy (4)		
[BIOL 387] Neuroscience (3)		
[BIOL 418] Introduction to Immunology (4)		
[BIOL 422] Senior Research (2-3)		
[CHEM 221] Chemical Analysis I (4)		
[CHEM 321] Chemical Analysis II (4)		
[CHEM 337] Physical Chemistry I (3)		
[CHEM 409] Advanced Organic Chemistry (3)		
[PHYS 202] Intro Physics II or [PHYS 212] General Physics II (4)		
[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	
<i>One of the following:</i>	3-7	
[MATH 108] Intuitive Calculus with Application (3)		
[MATH 109] Calculus I, Part I (4) & [MATH 110] Calculus I, Part II (3)		
[MATH 111] Calculus I (4)		
<i>One of the following:</i>	3	
[PHIL 101] Problems in Philosophy (3)		
[PHIL 102] History of Philosophy (3)		
<i>One of the following:</i>	4	
[PHYS 201] Introductory Physics I (4)		
[PHYS 211] General Physics I (4)		
[STAT 269] Introductory Statistics	3	

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August 2011

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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 108] , [MATH 109] or [MATH 111])	3 or 4	<u>met by major</u>
Laboratory Science ([BIOL 160] , [BIOL 161] , [BIOL 162] , 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*
Major Core Requirements	71-77
Free Electives	0-5
Total	123-124

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

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