

**Biological Sciences Curriculum Map**  
(Effective Fall 2015 and after) Molecular and Cellular Biology Track

The curriculum map provides insight and direction for students to graduate in four years. With the assistance of a student's academic advisor and department chairperson, the map will provide a guide between what should be taken term by term and where the student is with respect to grades received in courses. Milestones are noted on the map and serve as hints regarding what courses and/or activities must be completed that term. Please note that every term does not have a milestone. Prerequisites are also noted providing the student and his/her advisor a true indication of where the student falls within the curriculum. In this particular document, key prerequisites are listed that can prevent a student from moving along in the curriculum if not met. Also, note that the Department of Biology only considers the grade of "C" or higher as meeting the prerequisite. A grade of "C" or better is required in each course in mathematics taken for credit for a major or a minor in biology.

Students completing any of the biological sciences programs are well prepared to enter graduate or professional schools, such as medical, dental and pharmacy school, or to enter immediate employment after graduation. The Department of Biological Sciences encourages students to: expand their appreciation for biological diversity, form an understanding of Morphology and Physiology of Living systems, retain laboratory competency for future careers in the sciences, obtain research and presentation experience, acquire internship and volunteer experience, gain teaching and tutorial experience.

<b>Biological Sciences Curriculum Guide</b>		
<b>Term 1</b>	<b>Credits</b>	<b>Term 1 Milestones and/</b>
BSC 1010/L General Biology and Lab	4	Some students may need C
CHM 1045/L General Chemistry and Lab	4	Some students may need M
ENC 1101 Freshman Comm. Skills	3	Students must successfully cor
MAC 1105 College Algebra	3	Students must successfully
SLS 1101 1 <sup>st</sup> Year Experience	2	
<i>Total Term 1 Credits</i>	16	
<b>Term 2</b>	<b>Credits</b>	<b>Term 2 Milestones and/</b>
BSC 1011/L General Biology II and Lab	4	Students must successfully cor
CHM 1046/L General Chemistry II and Lab	4	Students must successfully
ENC 1102 Freshman Comm. Skills II	3	Students must successfully
MAC 1114 Trig. Or MAC 2311	3/4	
BSC 3926 Professional Development	2	
<i>Total Term 2 Credits</i>	16/17	
<b>Term 3</b>	<b>Credits</b>	<b>Term 3 Milestones and/</b>
CHM 2210/L Organic Chemistry and Lab	4	Students must successfully cor
Humanities	3	
Social Science	3	
MAC 2311 Calculus	4	
<i>Total Term 3 Credits</i>	14	
<b>Term 4</b>	<b>Credits</b>	<b>Term 4 Milestones and/</b>
BSC 2093/L Anatomy & Physiology I and Lab	4	Students must successfully cor
CHM 2211/L Organic Chemistry II and Lab	4	
Humanities	3	
PCB 2033C Ecology	3	
<i>Total Term 4 Credits</i>	14	
<b>Biological Sciences Curriculum Guide</b>		
<b>Term 1</b>	<b>Credits</b>	<b>Term 1 Milestones and/</b>
BSC 1010/L General Biology and Lab	4	Some students may need C
CHM 1045/L General Chemistry and Lab	4	Some students may need M
ENC 1101 Freshman Comm. Skills	3	Students must successfully cor
MAC 1105 College Algebra	3	Students must successfully
SLS 1101 1 <sup>st</sup> Year Experience	2	
<i>Total Term 1 Credits</i>	16	

<b>Term 5</b>	<b>Credits</b>	<b>Term 5 Milestones and/or Prerequisites</b>
PCB 3063 Genetics	4	Students must successfully complete BSC 4033 and Lab
BCH 4033/L Biochemistry I and Lab	4	Students must successfully complete BCH 4033 and Lab
Biology Elective	4	Students must successfully complete PHY 2048/53 and Lab
PHY 2048/L or PHY 2053/L Physics and Lab	5/4	
<i>Total Term 5 Credits</i>	17/16	
<b>Term 6</b>	<b>Credits</b>	<b>Term 6 Milestones and/or Prerequisites</b>
BOT 2313/3303 Plant Anatomy/Morphology	3	Students must successfully complete PHY 2049/54 and Lab
BCH 4034/L Biochemistry II and Lab	4	Students must successfully complete MCB 3020 C
MCB 3020C Microbiology	4	
PHY 2049/L or PHY 2054/L Physics II and Lab	5/4	
<i>Total Term 6 Credits</i>	16/15	
<b>Term 7</b>	<b>Credits</b>	<b>Term 7 Milestones and/or Prerequisites</b>
Biology Elective	4	Apply for graduation during the 1 <sup>st</sup> 2 weeks.
PCB 4023C Molecular Cell Biology	4	
PCB 4233 Immunology	3	
STA 2023 Statistics	3	
<i>Total Term 7 Credits</i>	14	
<b>Term 8</b>	<b>Credits</b>	<b>Term 8 Milestones and/or Prerequisites</b>
Social Science	3	
PCB 3723/L Vertebrate Physiology and Lab	4	
PCB 4024 Advanced Molecular Cell Biology	3	
Professional Seminar	1	
AFA/AMH 3014 or 2091	3	
<i>Total Term 8 Credits</i>	14	
<b>Total Credits</b>	<b>120</b>	