

**Bloomsburg University - Department of Chemistry**  
**Bachelor of Science in Chemistry with a Biochemistry Option**

Courses	Cr.	Taken:	Courses	Cr.	Taken:
<b>Courses Required for Chemistry Major</b>	<b>71</b>		<b>Fitness - 2 Credits</b>		
52.115 Chemistry for Science I <sup>1</sup>	4	_____	1) _____	1	_____
52.116 Chemistry for Sciences II	4	_____	2) _____	1	_____
52.231 Organic Chemistry I	4	_____	<b>Group A (Humanities) - 12 Credits</b>		
52.232 Organic Chemistry II	4	_____	1) 28.270 Logic (recommended)	3	_____
52.251 Inorganic Chemistry	3	_____	2) _____	3	_____
52.281 Introduction to Scientific Literature	1	_____	3) _____	3	_____
52.321 Analytical Chemistry I	3	_____	4) _____	3	_____
52.341 Biochemistry I	4	_____	<b>Group B (Social Sciences) - 12 Credits</b>		
52.361 Physical Chemistry I	4	_____	1) _____	3	_____
52.442 Biochemistry II	4	_____	2) _____	3	_____
<b>Chemistry Elective Courses<sup>2</sup></b>			3) _____	3	_____
<i>Two of the following (4 to 8 Credits)</i>	8	_____	4) _____	3	_____
52.322 Instrumental Analytical Chemistry (4 credits)		_____	<b>Group C (Nat. Sci. &amp; Math) 0 additional credits needed</b>		
52.362 Physical Chemistry II (4 credits)		_____	1) Satisfied by major requirement 52.115 Chemistry for Science I <sup>1</sup>		
52.452 Advanced Inorganic Chemistry (4 credits)		_____	2) Satisfied by major requirement 53.126 Calculus II		
52.492 Chemistry Research I (1 to 3 credits)		_____	3) Satisfied by major requirement 54.211 General Physics I		
52.493 Chemistry Research II (3 credits)		_____	4) Satisfied by major requirement 54.212 General Physics II		
<b>Collateral Courses Required for Major:</b>			<b>Free Electives (10 credits minimum)</b>	<b>10</b>	
50.242 Microbiology	4	_____	1) _____	3	_____
50.271 Cell Biology	4	_____	2) _____	3	_____
50.332 Genetics or 50.343 Immunology	3	_____	3) _____	3	_____
53.125 Calculus I <sup>1</sup>	3	_____	4) _____	1	_____
53.126 Calculus II	3	_____	5) _____		_____
53.225 Calculus III	3	_____	6) _____		_____
54.211 General Physics I	4	_____			
54.212 General Physics II	4	_____			
<b>General Education - Total Credits:</b>	<b>38</b>		<b>Optional 09.100 University Seminar<sup>4</sup></b>	<b>1</b>	
<b>Communication<sup>3</sup> - 9 Credits</b>			<b>TOTAL CREDITS FOR PROGRAM</b>	<b>120</b>	
1) 20.101 Composition 1	3	_____	<b>Two Approved Diversity Courses:<sup>5</sup></b>		
2) 2nd Level Writing:	3	_____	1) _____		_____
3) _____	3	_____	2) _____		_____
<b>Quantitative - 3 Credits</b>					
Satisfied by major requirement 53.125 Calculus I <sup>1</sup>					
<b>Values<sup>3</sup> - 3 Credits</b>					
1) _____	3	_____			

**Note 1:** A placement test is required for 52.115 and 53.125; students who need one or more prerequisite courses will have fewer free electives in the program.

**Note 2:** Students taking fewer than 8 Chemistry elective credits take additional free electives for a total of 120 credits.

**Note 3:** Students may count one Communications or Values course under the Group A or B category; May need additional free elective so total credits equal 120.

**Note 4:** If 09.100 not taken, then take additional Free Elective Credit.

**Note 5:** Two Major, General Education or Elective Courses selected must also qualify as Diversity Courses; see approved list in catalog and consult advisor.