Bloomsburg University - Department of Chemistry Bachelor of Science in Clinical Chemistry

Sourses Required for Chemistry Major, Clinical Option 51 Fitness - 2 Credits 52.115 Chemistry for Science I 4 1)	Courses	Cr.	Taken:	Courses	Cr.	Taken:
Science I	Courses Required for Chemistry Major, Clinical Option	51		Fitness - 2 Credits		
52.116 Chemistry for Sciences II 4 2) 52.231 Organic Chemistry I 4 15.232 Organic Chemistry II 3 2) 52.232 Organic Chemistry II 3 2) 53.321 Analytical Chemistry I 4 3) 52.341 Blochemistry I 4 3) 52.341 Blochemistry I 4 4 3) 52.361 Physical Chemistry I 4 4 3) 52.322 Instrumental Analytical Chem. (strongly recommended)² 601 Collateral Courses 2 2) 50.271 Cell Biology 4 3) 50.343 Immunology 3 4 3) 50.343 Immunology 3 4 3) 53.125 Calculus II 3 Group C (Nat. Sci. & Math) O additional credits needed 53.126 Calculus II 3 2) Satisfied by major requirement 52.115 Chemistry for Science I 54.211 General Physics I 4 3) Satisfied by major requirement 54.211 General Physics I 54.212 General Physics II 4 4 Satisfied by major requirement 54.212 General Physics II One Year Clinical Experience 28 Free Electives (May vary based on course choices) 2 General Education - Total Credits: 38 2) Communication² - 9 Credits 3.10 Composition I 3	52.115 Chemistry for Science I ¹	4		1)	_ 1	
52.232 Organic Chemistry II	52.116 Chemistry for Sciences II	4			1	
Salage	52.231 Organic Chemistry I	4		Group A (Humanities) - 12 Credits		
Salada S	52.232 Organic Chemistry II	4		1)	_ 3	
Scalar Physical Chemistry Scalar Chemistry Sc	53.321 Analytical Chemistry I	3			3	
Scalar Physical Chemistry Scalar Chemistry Sc	52.341 Biochemistry I	4		3)	3	
1) 3 3 3 3 3 3 3 3 3	52.361 Physical Chemistry I	4		4)	3	
2 3 50.271 Cell Biology	52.322 Instrumental Analytical Chem. (strongly recommended) ²			Group B (Social Sciences) - 12 Credits		
2 3 50.271 Cell Biology				1)	3	
50.343 Immunology 53. 4) Group C (Nat. Sci. & Math) 0 additional credits needed 53.126 Calculus II 53. 2) Satisfied by major requirement 52.115 Chemistry for Science I ¹ 53.225 Calculus III 54.211 General Physics I 54.212 General Physics II Cone Year Clinical Experience 28 Free Electives (May vary based on course choices) 1) Communication ² - 9 Credits 1) 20.101 Composition 1 3 4 5 6 7 CNAt. Sci. & Math) 0 additional credits needed 1) Satisfied by major requirement 52.115 Chemistry for Science I ¹ 2) Satisfied by major requirement 54.211 General Physics II 4 4 Satisfied by major requirement 54.212 General Physics II 2 1) 20.101 Composition 1	Collateral Courses			2)	3	
50.343 Immunology 53. 4) Group C (Nat. Sci. & Math) 0 additional credits needed 53.126 Calculus II 53. 2) Satisfied by major requirement 52.115 Chemistry for Science I ¹ 53.225 Calculus III 54.211 General Physics I 54.212 General Physics II Cone Year Clinical Experience 28 Free Electives (May vary based on course choices) 1) Communication ² - 9 Credits 1) 20.101 Composition 1 3 4 5 6 7 CNAt. Sci. & Math) 0 additional credits needed 1) Satisfied by major requirement 52.115 Chemistry for Science I ¹ 2) Satisfied by major requirement 54.211 General Physics II 4 4 Satisfied by major requirement 54.212 General Physics II 2 1) 20.101 Composition 1	50.271 Cell Biology	4		3)	3	
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53.225 Calculus III 54.211 General Physics I 54.212 General Physics II One Year Clinical Experience 28 Free Electives (May vary based on course choices) 1) Communication - Total Credits: 2) Communication - 9 Credits 1) 2) Satisfied by major requirement 53.126 Calculus II 3) Satisfied by major requirement 54.211 General Physics II 4) Satisfied by major requirement 54.212 General Physics II 2) 1) 20.101 Composition 1 3 2) Satisfied by major requirement 54.212 General Physics II 4) Satisfied by major requirement 54.212 General Physics II 4) Satisfied by major requirement 54.212 General Physics II 4) Satisfied by major requirement 54.212 General Physics II 54.21	53.125 Calculus I ¹	3		Group C (Nat. Sci. & Math) 0 additional credits needed		
54.211 General Physics I 54.212 General Physics II One Year Clinical Experience 28 Free Electives (May vary based on course choices) 1) General Education - Total Credits: Communication² - 9 Credits 1) 20.101 Composition 1 3) Satisfied by major requirement 54.211 General Physics II 4) Satisfied by major requirement 54.212 General Physics II 4) Satisfied by major requirement 54.212 General Physics II 2) 1) 20.101 Composition 1	53.126 Calculus II	3		1) Satisfied by major requirement 52.115 Chemistry for Science I ¹		
54.212 General Physics II One Year Clinical Experience 28 Free Electives (May vary based on course choices) 1) General Education - Total Credits: 2) Communication² - 9 Credits 3) 1) 20.101 Composition 1 3 4 4) Satisfied by major requirement 54.212 General Physics II Free Electives (May vary based on course choices) 2 2 2 3 5 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	53.225 Calculus III	3		2) Satisfied by major requirement 53.126 Calculus II		
One Year Clinical Experience 28 Free Electives (May vary based on course choices) 2 1) 2 Ceneral Education - Total Credits: 2 2) Communication² - 9 Credits 3 3) 1) 20.101 Composition 1 3	54.211 General Physics I	4		3) Satisfied by major requirement 54.211 General Physics I		
1) 2	54.212 General Physics II	4		4) Satisfied by major requirement 54.212 General Physics II		
General Education - Total Credits: 38 2) Communication² - 9 Credits 3) 3) 1) 20.101 Composition 1 3 3	One Year Clinical Experience	28		Free Electives (May vary based on course choices)	2	
Communication² - 9 Credits 3) 1) 20.101 Composition 1 3				1)	_ 2	
1) 20.101 Composition 1 3	General Education - Total Credits:	38		2)	_	
· · · · · · · · · · · · · · · · · · ·	Communication ² - 9 Credits			3)	_	
2) 2nd Level Writing: 3 Optional 09.100 University Seminar ³ 1	1) 20.101 Composition 1	3				
<u> </u>	2) 2nd Level Writing:	3		Optional 09.100 University Seminar ³	1	
3) 3	3)	3				
Quantitative - 3 Credits TOTAL CREDITS FOR PROGRAM 120	Quantitative - 3 Credits			TOTAL CREDITS FOR PROGRAM	120	
Satisfied by major requirement: 53.125 Calculus I ¹						
Values ² - 3 Credits Two Approved Diversity Courses: ⁴	Values ² - 3 Credits			Two Approved Diversity Courses:4		
<u>1)</u> 3 <u> 1)</u>	1)	3		1)	_	
2)						

Note 1: A placement test is required for 52.115 and 53.125; students who need one or more prerequisite courses will need fewer elective credits to complete program and may require more than 120 credits.

Note 2: 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 3: If 09.100 not taken, then take additional Free Elective Credit.

Note 4: Two additional Major, General Ed. or Elective Courses selected must also qualify as Diversity Courses; see approved list in catalog and consult advisor.