

Name:

Plan: SubPlan/Option:

Min. Units Required: 120 units

Chemistry, B.S. General Chemistry

## 2020-2021 University Catalog Degree Curriculum Sheet

Major Required	48 units	<u>General Education Requirements</u>	48 Units	
CHM1210 - General Chemistry I (3) (B1)		Students should consult the Academic Programs website		
CHM1210L - General Chemistry Laboratory I (1) (B3) CHM1220 - General Chemistry II (3) (B1)		https://www.cpp.edu/~academic-programs/general-education-course-listings.sh	html	
CHM1220L - General Chemistry Laboratory II (1) (B3) CHM2210 - Quantitative Analysis (2) CHM2210L - Quantitative Analysis Laboratory (2)		for current information regarding this requirement. Unless specific courses are required refer to the list of approved courses under General Education Requirements, Areas A the second s		
CHM2910A - Chemical Communication Activity (1)		Area A. English Language Communication and Critical Thinking (9 units)		
CHM3140 - Organic Chemistry I (4)		At least 3 units from each sub-area		
CHM3140L - Organic Chemistry Laboratory I (1) CHM3150 - Organic Chemistry II (3)		1. Oral Communication		
CHM3150 - Organic Chemistry II (3) CHM3150L - Organic Chemistry Laboratory II (1)		2. Writen Communication		
CHM3270 - Biochemistry I (3)		3. Critical Thinking		
CHM3270L - Biochemistry Laboratory I (1) CHM3420 - Spectroscopic Methods (1)		Area B. Scientific Inquiry and Quantitative Reasoning (12 units)	0	
CHM3420L - Spectroscopic Methods Laboratory (1)		At least 3 units from B1, B2, B4, and B5 including 1 unit of lab from B1 or B2 to fulfill B3 1. Physical Sciences	3	
CHM3430 - Separation Methods (1) CHM3430L - Separation Methods Laboratory (1)		2. Life Sciences		
CHM3520L - Physical Chemistry Laboratory (2)		3. Laboratory Activity		
MAT1140 - Calculus I (4) (B4)		4. Mathematics/Quantitative Reasoning		
MAT1150 - Calculus II (4) (B4) PHY1510 - Introduction to Newtonian Mechanics (3) (B1)		5. Science and Technology Synthesis		
PHY1510 - Introduction to Newtonian Mechanics (3) (B1) PHY1510L - Newtonian Mechanics Laboratory (1) (B3)		Area C, Arts and Humanities (12 units)		
PHY1520 - Introduction to Electromagnetism and Circuits (3)		At least 3 units from each sub-area and 3 additional units from sub-areas 1 and/or 2		
PHY1520L - Introductory Laboratory on Electromagnetism and Circ		1. Visual and Performing Arts		
Subplan/Option Required CHM3040 - Elements of Physical Chemistry I (3) and	10 units	2. Literature, Modern Languages, Philosophy and Civilization		
CHM3040 - Elements of Physical Chemistry I (3) <b>and</b> CHM3050 - Elements of Physical Chemistry II (3)		3. Arts and Humanities Synthesis		
OR		Area D. Social Sciences (12 units)		
CHM3110 - Classical Physical Chemistry (3) <i>and</i> CHM3120 - Quantum Physical Chemistry (3)		At least 3 units from each sub-area		
oniviorizo - Quantum ritysical onemistry (5)		1. U.S. History and American Ideals		
BIO1150 - Basic Biology (3) (B2)		2. U.S. Constitution and California Government		
BIO1150L - Basic Biology Laboratory (1) (B3)	<b>00</b> <i>H</i>	3. Social Sciences: Principles, Methodologies, Value Systems, and Ethics		
Subplan/Option Electives	23 units	4. Social Science Synthesis Area E. Lifelong Learning and Self-Development (3 units)		
Students may take any 3000-4000 level chemistry courses not alre required to satisfy units. Up to 12 units may come from outside CH				
suggested courses that prepare for specific areas in chemistry or to		Interdisciplinary General Education	21 Units	
vareer goals.		An alternate pattern for partial fulfillment of GE Areas A, C, and D available for students Interdisciplinary General Education (IGE) program. Students should see an advisor for GE coursework required by their major. Please refer to the University Catalog General Program section for additional information.	specific	
		How IGE fulfills General Education Requirements:		
		Year Completion of IGE Courses Satisfies GE Require	ments	
		First IGE 1100, IGE 1200 A2 and C2		
		Second/Third IGE 2100, IGE 2200 C1 and C2		
		IGE 2300, IGE 2400 D1 and D3		
		Third/Fourth IGE 3100 C3 or D4		
		American Institutions	6 Units	
		Courses that satisfy this requirement may also satisfy GE Area D1 and D2.		
		American Cultural Perspectives Requirement	3 Units	
			Refer to the University Catalog General Education Program section for a list of courses that satisfy this requirement. Course may also satisfy major, minor, GE, or unrestricted elective requirements.	
		Graduation Writing Test		
		All persons who receive undergraduate degrees from Cal Poly Pomona must pass the Graduation Writing Test (GWT). The test must be taken by the semester following com 60 units for undergraduates.		