



**California State Polytechnic University, Pomona  
Degree Curriculum Sheet**

Plan (Major) **CHEMISTRY**

Catalog Year **2014 - 2015**

Name \_\_\_\_\_

Subplan/Option **Chemistry**

Minimum Units Required **180**

Student ID \_\_\_\_\_

Required Core Courses		
Course		Units
Required of all students. A 2.0 cumulative GPA is required in core courses, including subplan courses, in order to receive a degree in the major.		
General Chemistry & Lab	CHM 121/121L	3/1
General Chemistry & Lab	CHM 122/122L	3/1
General Chemistry & Lab	CHM 123/123L	3/1
Quantitative Analysis & Lab	CHM 221/221L	2/2
Organic Chemistry	CHM 314	3
Organic Chemistry	CHM 315	3
Organic Chemistry	CHM 316	3
Organic Chemistry Lab	CHM 317L	1
Organic Chemistry Lab	CHM 318L	1
Organic Chemistry Lab	CHM 319L	1
Spectroscopic Methods & Lab	CHM 342/342L	2/2
Separations Methods & Lab	CHM 343/343L	2/2
Electroanalytical Methods & Lab	CHM 344/344L	2/2
Physical Chemistry & Lab	CHM 352/352L	1/2
Organic Synthesis & Lab	CHM 422/422L	2/2
or Organic Analysis & Lab	CHM 424/424L	(2/2)
Senior Research Project	CHM 491	3
Senior Research Project	CHM 492	3
Undergraduate Seminar	CHM 493	2
<b>Total Units</b>		<b>55</b>

Required Subplan/Option Core Courses		
Course		Units
Physical Chemistry	CHM 311	3
Physical Chemistry	CHM 312	3
Physical Chemistry	CHM 313	3
Physical Chemistry Lab	CHM 353L	2
Inorganic Chemistry	CHM 401	3
Inorganic Chemistry	CHM 402	3
Elements of Biochemistry & Lab	CHM 321/321L	3/1
or Biochemistry & Lab	CHM 327/327L	(3/1)
and Biochemistry & Lab	CHM 328/328L	(3/1)
*Two elective courses, approved 300, 400-level or higher, excluding CHM 400, CHM 491, CHM 492, CHM 493 & CHM 499/499A/499L		6-8
<b>Total Units</b>		<b>27-33</b>

Required Support Courses		
Course		Units
The following required support courses should be taken to satisfy the indicated GE Requirements to achieve the minimum units to degree listed at the top of this sheet.		
Basic Biology (B2, B3)	BIO 115/115A/115L	3/1/1
Intro to C++	CS 128	4
Analytic Geometry and Calculus I (B4)	MAT 114	4
Analytic Geometry and Calculus II	MAT 115	4
Analytic Geometry and Calculus III	MAT 116	4
Differential Equations	MAT 216	4
General Physics & Lab (B1,B3)	PHY 131/131L	3/1
General Physics & Lab	PHY 132/132L	3/1
General Physics & Lab	PHY 133/133L	3/1
<b>Total Units</b>		<b>37</b>

Other Requirements
A reading knowledge of a foreign language, especially German, is strongly recommended for students planning advanced study in Science.

Unrestricted Electives	
Course	Units
Select a sufficient number of courses so that the total from "Required Subplan/Option", "Required Support", "GE", and "Unrestricted Electives" is at least 125 units.	0-5
<b>Total Units</b>	
<b>0-5</b>	

General Education Requirements	
Area	Units
<b>Area A Communication &amp; Critical Thinking</b>	<b>12</b>
1. Oral Communication	
2. Written Communication	
3. Critical Thinking	
<b>Area B Mathematics &amp; Natural Sciences</b>	<b>16</b>
<i>Select at least one lab course from subarea 1 or 2.</i>	
1. Physical Science	
2. Biological Science	
3. Laboratory Activity	
4. Math/Quantitative Reasoning	
5. Science & Technology Synthesis	
<b>Area C Humanities</b>	<b>16</b>
1. Visual and Performing Arts	
2. Philosophy and Civilization	
3. Literature and Foreign Language	
4. Humanities Synthesis	
<b>Area D Social Sciences</b>	<b>20</b>
1. U.S. History, Constitution, American Ideals	
a. United States History	
b. Introduction to American Government	
2. History, Economics and Political Science	
3. Sociology, Anthropology, Ethnic & Gender Studies	
4. Social Science Synthesis	
<b>Area E Lifelong Understanding &amp; Self Development</b>	<b>4</b>
<b>Total Units</b>	
<b>68</b>	

American Institutions	Units
Courses that satisfy this requirement may also satisfy GE Area D1	<b>8</b>

American Cultural Perspectives Requirement	Units
Refer to catalog for list of courses that satisfy this requirement. Course may also satisfy major, minor, GE, or unrestricted elective requirements.	<b>4</b>

All persons who receive undergraduate degrees from Cal Poly Pomona must pass the Graduation Writing Test (GWT). The test must be taken by the quarter following completion of 120 units for undergraduates.