Plan (Major) _______

California State Polytechnic University, Pomona Degree Curriculum Sheet

Subplan/Option Industrial Chemistry

Catalog Year _____2014 - 2015 Minimum Units Required

180

Student ID

Name

Required Core Courses			Required Support Courses		
Course		Units	Course	Units	
Required of all students. A 2.0 cumulative GI	PA is required in core		The following required support courses should be taken to satisfy the		
courses, including subplan courses, in order t	o receive a degree in		indicated GE Requirements to achieve the minimum units to degree		
the major.			listed at the top of this sheet.		
General Chemistry & Lab	CHM 121/121L	3/1	Basic Biology (B2, B3) BIO 115/115A/115L	3/1/1	
General Chemistry & Lab	CHM 122/122L	3/1	Intro to C++ CS 128	4	
General Chemistry & Lab	CHM 123/123L	3/1	Analytic Geometry and Calculus I (B4) MAT 114	4	
Quantitative Analysis & Lab	CHM 221/221L	2/2	Analytic Geometry and Calculus II MAT 115	4	
Organic Chemistry	CHM 314	3	Analytic Geometry and Calculus III MAT 116	4	
Organic Chemistry	CHM 315	3	General Physics & Lab (B1, B3) PHY 131/131L	3/1	
Organic Chemistry	CHM 316	3	General Physics & Lab PHY 132/132L	3/1	
Organic Chemistry Lab	CHM 317L	1	General Physics & Lab PHY 133/133L	3/1	
Organic Chemistry Lab	CHM 318L	1	Cooperative Education SCI 470	4	
Organic Chemistry Lab	CHM 319L	1	or Cooperative Education SCI 470	(2)	
Spectroscopic Methods & Lab	CHM 342/342L	2/2	and Cooperative Education SCI 477	(2)	
Separation Methods & Lab	CHM 343/343L	2/2	(If a suitable Co-op position is not available, students will take	(2)	
Electroanalytical Methods & Lab	CHM 344/344L	2/2	an additional advanced Chemistry elective [consult advisor])		
Physical Chemistry & Lab	CHM 352/352L	1/2		3	
Organic Synthesis & Lab	CHM 422/422L	2/2	Statistical Methods in Engr. and Physical Sciences STA 309	3	
or Organic Analysis & Lab	CHM 424/424L	(2/2)			
Senior Research Project	CHM 424/424L CHM 491	(2/2)			
	CHM 491 CHM 492	3			
Senior Research Project		2	Total Units	40	
Undergraduate Seminar	CHM 493				
	Total Units	55	Elective Support Courses		
Required Subplan/Option Core Cours	ses		Course	Units	
Course		Units	Select a minimum of 6 units from one approved elective package.	6	
Elements of Physical Chemistry	CHM 304/304A	3/1	(See Advisor)	6	
and Elements of Physical Chemistry	CHM 305	÷, .			
or Physical Chemistry	CHM 311	(3)			
and Physical Chemistry	CHM 312	(3)	Total Units	6	
and Physical Chemistry	CHM 313				
Elements of Biochemistry & Lab	CHM 321/321L	3/1			
or Biochemistry & Lab	CHM 327/327L	(3/1)	Unrestricted Electives		
or Inorganic Chemistry	CHM 401	(3/1)	Course	Units	
The Chemist in Industry	CHM 340	(3)			
Two courses from the following:		6-8	Select a sufficient number of courses so that the total from "Required Subplan/Option", "Required Support", "GE", and "Unrestricted Electives"	, 0-3	
Inorganic Chemistry	CHM 402	(3)			
Polymer Chemistry	CHM 402 CHM 409	(3)	is at least 119 units.		
Intro to Colloid and Surface Chemistry	CHM 409 CHM 413	(3)			
Bioanalytical Chemistry	CHM 413 CHM 450	(3)			
Biochemical Preparations & Lab	CHM 452/452L	(1/2)	Total Units	0-3	
Green Chemistry	CHM 459	(4)		1	
	01111 / 000	(0)			
Air Pollution Problems	CHM 460 Total Units	(3) 20-25			

Area		
Area A Communication & Critical Thinking		
1. Oral Communication		
2. Written Communication		
3. Critical Thinking		
Area B Mathematics & Natural Sciences		
Select at least one lab course from subarea 1 or 2.		
1. Physical Science		
2. Biological Science		
3. Laboratory Activity		
4. Math/Quantitative Reasoning		
5. Science & Technology Synthesis		
Area C Humanities		
1. Visual and Performing Arts		
2. Philosophy and Civilization		
3. Literature and Foreign Language		
4. Humanities Synthesis		
Area D Social Sciences	20	
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	4	
Area E Lifelong Understanding & Self Development		
Total Units	68	
merican Institutions		
Courses that satisfy this requirement may also satisfy GE Area D1	8	
merican Cultural Perspectives Requirement		
Refer to catalog for list of courses that satisfy this requirement. Course may also satisfy major, minor, GE, or unrestricted elective equirements.	4	
All persons who receive undergraduate degrees from Cal Poly Pomo		
bass the Graduation Writing Test (GWT). The test must be taken by the following completion of 120 units for undergraduates.	the quar-	

