Plan (Major) \_\_\_\_\_CHEMISTRY

## Subplan/Option \_

Industrial	Chemistry	

**Required Core Courses** Units Course General Chemistry CHM 121/121L 3/1 General Chemistry CHM 122/122L 3/1 General Chemistry CHM 123/123L 3/1 2/2 Quantitative Analysis CHM 221/221L Organic Chemistry CHM 314 3 CHM 315 Organic Chemistry 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 CHM 342/342L 2/2 Separation Methods 2/2 CHM 343/343L Electroanalytical Methods 2/2 CHM 344/344L Physical Chemistry CHM 352/352L 1/2 Organic Synthesis CHM 422/422L 2/2 or Organic Analysis CHM 424/424L (2/2) Senior Research Project CHM 491 3 Senior Research Project CHM 492 3 Undergraduate Seminar CHM 493 2

Total Units

55

Required Subplan/Option Core Courses	5	
Course		Units
Elem Phys Chemistry and Elem Phys Chemistry or Physical Chemistry and Physical Chemistry and Physical Chemistry Elements of Biochemistry or Biochemistry or Inorganic Chemistry The Chemist in Industry Two courses from the following: CHM 40 452/452L, 460	CHM 304/304A CHM 305 CHM 311 CHM 312 CHM 321/321L CHM 327/327L CHM 327/327L CHM 401 CHM 340 02, 409, 413, 450,	3/1 3 (3) (3) 3/1 (3/1) (3) 4 6-8
	Total Units	20-25

California State Polytechnic University, Pomona
Degree Curriculum Sheet

2011-2012 Minimum Units Required 180

Catalog Year

Name Student ID

Required Support Courses			
Course			Units
Basic Biology (B2, B3)	BIO	115/115A/115L	3/1/1
Introduction to C++		CS 128	4
Analytic Geom & Calculus (B4)		MAT 114	4
Analytic Geom & Calculus		MAT 115	4
Analytic Geom & Calculus		MAT 116	4
General Physics (B1, B3)		PHY 131/131L	3/1
General Physics		PHY 132/132L	3/1
General Physics		PHY 133/133L	3/1
Cooperative Education		SCI 470	4
or Cooperative Education		SCI 471	(2)
and Cooperative Education		SCI 472	(2)
(If a suitable Co-op position is not available, students will take an additional advanced Chemistry elective [consult advisor])			
Statistical Methods in Engr. & Physical Scier	ices	STA 309	3

Elective Support Courses	
Course	Units
Select a minimum of 6 units from one approved elective package. (See Advisor)	6
Total Units	6

Total Units

40

Unrestricted Electives		
Course	Units	
Unrestricted Electives	0-3	
Select a sufficient number of courses so that the total from "Required Subplan/Option", "Required Support", "GE", and "Unrestricted Electives" is at least 119 units.		
Total Units	0-3	

Area	·	Units
Area A	Communication & Critical Thinking	12
1	Oral Communication	
2	Written Communication	
3	Critical Thinking	
Area B	Mathematics & Natural Sciences	16
Select a	t least one lab course from sub-area 1 or 2.	
1	Physical Science	
2	Biological Science	
3	Laboratory Activity	
4	Math/Quantitative Reasoning	
5	Science & Technology Synthesis	
Area C	Humanities	16
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	
2	History, Economics and Political Science	
3	Sociology, Anthropology, Ethnic & Gender Studies	
4	Social Science Synthesis	
Area E	Lifelong Understanding & Self Development	4
	Total Units	68

Evaluator \_

GWT Satisfied

Yes

No

American Institutions	
Courses that satisfy this requirement may also satisfy G.E. Area	8
D1	

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

The following required support courses shou indicated GE Requirements to achieve the m at the top of this sheet.		,	
Course			GE Area
General Physics		PHY 131/131L	B1, B3
Basic Biology	BIO	115/115A/115L	B2, B3
Analytic Geom & Calculus		MAT 114	B4
The remaining GE requirements may be satisfied by any course approved for that area.			

No more than 105 community college quarter units or 36 extension credit quarter units may be applied toward a Bachelor's degree.

A minimum 2.0 cumulative GPA is required in core (including option) courses, Cal Poly Pomona courses, and overall work completed in order to receive a degree in this major.