

## California State Polytechnic University, Pomona Degree Curriculum Sheet

180

Plan (Major) \_\_\_CHEMISTRY

Subplan/Option \_\_\_\_\_Industrial Chemistry

2010-2011 Catalog Year Minimum Units Required

Name\_ Student ID

Evaluator \_ **GWT** Satisfied Yes

No

Required Core Courses		
Course		Units
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	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
Separation 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	4
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
	Total Units	55

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Required Subplan/Option Courses		
Course		Units
Elem Phys Chemistry	CHM 304/304A	3/1
and Elem Phys Chemistry	CHM 305	3
or Physical Chemistry	CHM 311	(3)
and Physical Chemistry	CHM 312	(3)
and Physical Chemistry	CHM 313	(3)
Elements of Biochemistry/Lab	CHM 321/321L	3/1
or Biochemistry/Lab	CHM 327/327L	(3/1)
or Inorganic Chemistry	CHM 401	(3)
The Chemist in Industry	CHM 340	4
Two courses from the following: CHM 402 452/452L, 460	2, 409, 413, 450,	6-8

Total Units 20-25

Required Support Courses			
Course			Units
Basic Biology/Lab (B2, B3)	BIO	115/115A/115L	3/1/1
Introduction to C++		CS 128	4
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 Science	es	STA 309	3
Analytic Geom & Calculus (B4)		MAT 114	4
Analytic Geom & Calculus		MAT 115	4
Analytic Geom & Calculus		MAT 116	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
		Total Units	40

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

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

General	Education Requirements	
Area	•	Units
Area A	Communication & Critical Thinking	12
	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	,, ===============================	
3	Sociology, Anthropology, Ethnic & Gender Studies	
4	Social Science Synthesis	
Area E	Lifelong Understanding & Self Development	4
_	Total Units	68

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

American Cultural Perspectives Requirement		1
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 should be taken to satisfy the indicated GE Requirements to achieve the minimum units to degree listed at the top of this sheet.

Course		GE Area
General Physics/Lab	PHY 131/131L	B1, B3
Basic Biology/Lab	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.