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

Required Core Courses			Required Support Courses		General Education Requirements	
Course		Units	Course	Units	Area	Unit
General Chemistry	CHM 121/121L	3/1	Basic Biology (B2, B3) BIO 115/115A/115L	3/1/1	Area A Communication & Critical Thinking	12
General Chemistry	CHM 122/122L	3/1	Genetics BIO 303	4	1 Oral Communication	
General Chemistry	CHM 123/123L	3/1	Cell and Molecular Biology BIO 310	4	2 Written Communication	
Quantitative Analysis	CHM 221/221L	2/2	Analytic Geom & Calculus (B4) MAT 114	4	3 Critical Thinking	
Organic Chemistry	CHM 314	3	Analytic Geom & Calculus MAT 115	4	Area B Mathematics & Natural Sciences	16
Organic Chemistry	CHM 315	3	Analytic Geom & Calculus MAT 116	4	Select at least one lab course from sub-area 1 or 2.	
Organic Chemistry	CHM 316	3	General Physics (B1, B3) PHY 131/131L	3/1	1 Physical Science	
Organic Chemistry Lab	CHM 317L	1	General Physics PHY 132/132L	3/1	2 Biological Science	
Organic Chemistry Lab	CHM 318L	1	General Physics PHY 133/133L	3/1	3 Laboratory Activity	
Organic Chemistry Lab	CHM 319L	1			4 Math/Quantitative Reasoning	
Spectroscopic Methods	CHM 342/342L	2/2	Total Units	37	5 Science & Technology Synthesis	
Separation Methods	CHM 343/343L	2/2			Area C Humanities	16
Electroanalytical Methods	CHM 344/344L	2/2			1 Visual and Performing Arts	
Physical Chemistry	CHM 352/352L	1/2	Destrictive Connect Flectives		2 Philosophy and Civilization	
Organic Synthesis	CHM 422/422L	2/2	Restrictive Support Electives		3 Literature and Foreign Language	
or Organic Analysis	CHM 424/424L	(2/2)	Course	Units	4 Humanities Synthesis	
Senior Research Project	CHIM 424/424L CHM 491	3	Select a minimum of 4 units from the following courses:	4	Area D Social Sciences	20
Senior Research Project	CHM 491 CHM 492	3	Biophysics BIO/PHY 410	(4)		20
	CHM 492 CHM 493	2	Radiation Biology BIO 431/431L	(3/1)	1 U.S. History, Constitution, American Ideals 2 History, Economics and Political Science	
Undergraduate Seminar	CHIVI 493	2	Molecular Biology Techniques BIO 451/451L	(3/1)		
			Molecular Biology of Recombinant DNA BIO 457/451L	(3/2)	3 Sociology, Anthropology, Ethnic & Gender Studies	
			Bioinformatics BIO 459/459L		4 Social Science Synthesis	
			Computer-assisted Drug Design BIO 459/459L	(3/2) (3)	Area E Lifelong Understanding & Self Development	4
	Total Units	55	Computer-assisted Drug Design Dio 405	(5)	Total Units	68
					American Institutions Courses that satisfy this requirement may also satisfy G.E. Area	8
Required Subplan/Option Core Courses			Total Units	4	D1	
Course		Units		-		
Elem Phys Chemistry	CHM 304/304A	3/1			American Cultural Perspectives Requirement	
Elem Phys Chemistry	CHM 305	3	Unrestricted Electives		Refer to catalog for list of courses that satisfy this requirements.	4
Biochemistry	CHM 327/327L	3/1			Course may also satisfy major, minor, GE, or unrestricted elective	
	CHM 328/328L	3/1	Course	Units	requirements.	
DIOCHEMISTRY			Unrestricted Electives	0-1		
Biochemistry Biochemistry	CHM 329/329L	3/1				
Biochemistry	,	3/1			The following required support courses should be taken to satisfy the	
Biochemistry Choose 8-12 units from the following courses:	CHM 329/329L	3/1 8-12	Select a sufficient number of courses so that the total from		indicated GE Requirements to achieve the minimum units to degree	
Biochemistry Choose 8-12 units from the following courses: Clinical Chemistry	CHM 329/329L CHM 331/331L	3/1	Select a sufficient number of courses so that the total from "Required Subplan/Option", "Required Support",			
Biochemistry Choose 8-12 units from the following courses: Clinical Chemistry Computational Biochemistry	CHM 329/329L CHM 331/331L CHM 417	3/1 8-12 (2/2) (4)	Select a sufficient number of courses so that the total from		indicated GE Requirements to achieve the minimum units to degree at the top of this sheet.	e listed
Biochemistry Choose 8-12 units from the following courses: Clinical Chemistry Computational Biochemistry Enzymology	CHM 329/329L CHM 331/331L CHM 417 CHM 451/451L	3/1 8-12 (2/2)	Select a sufficient number of courses so that the total from "Required Subplan/Option", "Required Support", "GE", and "Unrestricted Electives" is at least 121 units.		indicated GE Requirements to achieve the minimum units to degree at the top of this sheet. Course	e listed GE Are
Biochemistry Choose 8-12 units from the following courses: Clinical Chemistry Computational Biochemistry	CHM 329/329L CHM 331/331L CHM 417	3/1 8-12 (2/2) (4)	Select a sufficient number of courses so that the total from "Required Subplan/Option", "Required Support",	0-1	indicated GE Requirements to achieve the minimum units to degree at the top of this sheet. Course General Physics PHY 131/131L	e listed GE Are B1, B3
Biochemistry Choose 8-12 units from the following courses: Clinical Chemistry Computational Biochemistry Enzymology	CHM 329/329L CHM 331/331L CHM 417 CHM 451/451L	3/1 8-12 (2/2) (4) (3/1)	Select a sufficient number of courses so that the total from "Required Subplan/Option", "Required Support", "GE", and "Unrestricted Electives" is at least 121 units.	0-1	indicated GE Requirements to achieve the minimum units to degree at the top of this sheet. Course General Physics PHY 131/131L Basic Biology BIO 115/115A/115L	e listed GE Are B1, B3 B2, B3
Biochemistry Choose 8-12 units from the following courses: Clinical Chemistry Computational Biochemistry Enzymology	CHM 329/329L CHM 331/331L CHM 417 CHM 451/451L	3/1 8-12 (2/2) (4) (3/1)	Select a sufficient number of courses so that the total from "Required Subplan/Option", "Required Support", "GE", and "Unrestricted Electives" is at least 121 units.	0-1	indicated GE Requirements to achieve the minimum units to degree at the top of this sheet. Course General Physics PHY 131/131L Basic Biology BIO 115/115A/115L Analytic Geom & Calculus MAT 114	e listed GE Are B1, B3 B2, B3 B4
Biochemistry Choose 8-12 units from the following courses: Clinical Chemistry Computational Biochemistry Enzymology	CHM 329/329L CHM 331/331L CHM 417 CHM 451/451L	3/1 8-12 (2/2) (4) (3/1)	Select a sufficient number of courses so that the total from "Required Subplan/Option", "Required Support", "GE", and "Unrestricted Electives" is at least 121 units.	0-1	indicated GE Requirements to achieve the minimum units to degree at the top of this sheet. Course General Physics PHY 131/131L Basic Biology BIO 115/115A/115L Analytic Geom & Calculus MAT 114 The remaining GE requirements may be satisfied by any course app	BI, BC B1, BC B2, B3 B4
Biochemistry Choose 8-12 units from the following courses: Clinical Chemistry Computational Biochemistry Enzymology	CHM 329/329L CHM 331/331L CHM 417 CHM 451/451L	3/1 8-12 (2/2) (4) (3/1) (3)	Select a sufficient number of courses so that the total from "Required Subplan/Option", "Required Support", "GE", and "Unrestricted Electives" is at least 121 units.	0-1	indicated GE Requirements to achieve the minimum units to degree at the top of this sheet. Course General Physics PHY 131/131L Basic Biology BIO 115/115A/115L Analytic Geom & Calculus MAT 114	Bisted GE Ar B1, B B2, B B4

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.