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

Name_

2009-2010

Catalog Year_

Subplan/Option

Required Core Courses		
Course		Units
Foundations of Biology/Lab	BIO 122/122L	3/2
Foundations of Biology/Lab	BIO 123/123L	3/2
Form and Function in Plants/Lab	BOT 201/201L	3/2
Animal Biology/Lab	Z00 201/201L	3/2
Biometrics/Lab	BIO 211/211L	3/1
Genetics	BIO 303	4
Principles of Ecology/Lab	BIO 325/325L	3/1
Principles of Evolution	BIO 413	4
Internship in Biology	BIO 441	2
or Undergraduate Research	BIO 461	(2)
	Total Units	38

Elective Core Courses	
Course	Units
Upper Division Elective Core Courses	29
At least 18 units from one cluster and 11 additional units taken from one or both of the other two clusters. At least 15 units must be taken at the 400 or 500 level. See "Upper-Division Course Clusters" listed on the back of this sheet.	
Total Units	29

Mi	nimum Units Required180	Student ID				
Ι	Required Support Courses					
	Course		Units			
	Sunnort Courses for Cluster 1 and 2		•			
	Foundations of Biology/Lab (B2, B3)	BIO 121/1211	3/2			
	Biodiversity Conservation	BIO 340	4			
	General Chemistry/Lab (B1_B3)	CHM 121/121	3/1			
	General Chemistry/Lab	CHM 122/122L	3/1			
	General Chemistry/Lab	CHM 123/123L	3/1			
	Organic Chemistry/Lab	CHM 201/250L	3/1			
	Elements of Biochemistry/Lab	CHM 321/321L	3/1			
	Geographic Information Systems/Lab	GEO 240/240A	3/1			
	Environmental Modeling with GIS/Lab	GEO 445/445A	3/1			
	Principles of Geology	GSC 111	4			
	College Physics/Lab	PHY 121/121L	3/1			
	College Physics/Lab	PHY 122/122L	3/1			
	Basic Soil Science/Lab	PLT 231/231L	3/1			
	Freshman English I (A2)	ENG 104	4			
	Freshman English II (A3)	ENG 105	4			
	Calculus for the Life Sciences (B4)	MAT 120	4			
	Environment and Society (B5)	BIO 304	4			
	Principles of Economics (D2)	EC 201 or EC 202	4			
	Global Regenerative Systems D4)	RS 302	4			
	Support Courses for Cluster 3					
	Foundations of Biology/Lab (B2, B3)	BIO 121/121L	3/2			
	General Chemistry/Lab (B1, B3)	CHM 121/121L	3/1			
	General Chemistry/Lab	CHM 122/122L	3/1			
	General Chemisry/Lab	CHM 123/123L	3/1			
	Organic Chemistry/Lab	CHM 314/317L	3/1			
	Organic Chemistry/Lab	CHM 315/318L	3/1			
	Organic Chemistry	CHM 316	3			
	Biochemistry/Lab	CHM 327/321L	3/1			
	Biochemistry/Lab	CHM 328/328L	3/1			
	Basic Microbiology/Lab	MIC 201/201L	3/2			
	College Physics/Lab	PHY 121/121L	3/1			
	College Physics/Lab	PHY 122/122L	3/1			
	Basic Soil Science/Lab	PLT 231/231L	3/1			
	Freshman English I (A2)	ENG 104	4			
	Freshman English II (A3)	ENG 105	4			
	Laiculus for the Life Sciences (B4)	MAI 120	4			
	Environment and Society (B5)	BIU 304	4			
	Clobal Regenerative Systems (D4)		4			
		no 302	4			
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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
America Courses	Total Units In Institutions that satisfy this requirement may alsosatisfy G.E. Area D1	68 8
America Courses America Refer to also sati	Total Units an Institutions that satisfy this requirement may alsosatisfy G.E. Area D1 an Cultural Perspectives Requirement catalog for list of courses that satisfy this requirement. Course may sfy major, minor, GE, or unrestricted elective requirements.	68 8 4
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Evaluator _ **GWT** Satisfied

Yes

No

Insect Taxonomy	PLT 402/402L	2/2	Environmentally Sustainable Agriculture	PLT 437/437L	3/1	Pesticide and Hazardous Material Laws	PLT 303
Marine Biology	BIO 330/330L	3/2	Chaparral Biology	BIO 425/425L	3/1	Environmental Toxicology	PLT 411
Biological Systematics	BIO 406	3	Marine Ecology	BIO 442/442L	3/2	Aquatic Ecology for Environmental Engineers	BIO 305
Biology of Ants	BIO 407/407L	3/2	Tropical Biology	BIO 485	3	Cell and Molecular Biology	BIO 310
Field Studies in the Southwest	BIO 415L	4	Ecology of Fungi*	BIO 525/525L	2/2	Water Pollution Biology	BIO 420
Field Studies in Baja California	BIO 416L	4	Community Analysis*	BIO 527/527L	3/1	Radiation Biology	BIO 431/
Population Ecology	BIO 418	3	Community Ecology*	BIO 528	3	Mycology	BOT 425
Population Genetics	BIO 445/445L	3/1	Tropical Field Biology*	BIO 532L	2-6	Mycology	BOT 426
Mechanisms of Speciation*	BIO 530	3	Biogeography*	BIO 540	3	Environmental Resource Mgmt and Lab	CE 351/3
California Flora	BOT 343/343L	1/2	Wildlife Ecology*	BIO 575/542L	2/1	Biochemistry/Lab	CHM 32
Evolution of Plants	BOT 434/434L	3/2	General Plant Pathology	BOT 323/323L	2/2	Air Pollution Problems	CHM 46
Environmental Factors in Regional Planning	URP 487	4	Plant Ecology	BOT 421/421L	3/1	Systems Law and Legislation	CSA 340
Ornithology	ZOO 329/329L	2/1	Plant Physiology	BOT 428/428L	3/2	Environmental Law	GEO 413
Introduction to Entomology	ZOO 426/426L	3/1	General Systems Theory: Hierarchies	CSA 411/411A	3/1	Applied Microbiology	MIC 310
Herpetology	ZOO 429/429L	2/2	Gen. Systems Theory: Testing Hypotheses	CSA 412/412A	3/1	General Epidemiology	MIC 330
Mammalogy	ZOO 430/430L	2/2	Gen. Systems Theory: Man-Made Systems	CSA 413/413A	3/1	Medical Bacteriology	MIC 410
lchthyology	ZOO 441/441L	2/2	Applied Ecosystems Engineering	CSA 470	4	Microbial Physiology	MIC 428
Native Plant Materials	PLT 337/337L	2/1	Photographic Remote Sensing	GEO 410	4	Soil Chemistry	PLT 431/
			Digital Image Processing	GEO 420	4	Soil Physics	PLT 432/
			Applied Geomorphology	GSC 323/323L	3/1		
			Politics of Public Policy	PLS 315	4		
			Life Support Processes	RS 301	4		
			Shaping a Sustainable Future	RS 303	4		
			Soil Resource Mgmt and Conservation	PLT 334/334L	3/1		

Cluster 2 - Ecosystem Ecology and Management

Cluster 1 - Conservation Biology

Cluster 3 - Environmental Microbiology and Biotechnology

*500-level courses. A total of no more than 13 units may be used for undergraduate credit. The student must have senior standing and at least a 2.75 upper-division GPA. A special petition must be filed to receive undergraduate credit for graduate courses.

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PLT 303

BIO 431/431L

BOT 425/425L

BOT 426/426L

CE 351/351L

CHM 460

GEO 413

MIC 330

CHM 329/329L

CSA 340/340L

MIC 310/310L

MIC 410/410L

MIC 428/428L

PLT 431/431L

PLT 432/432L