



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

Plan (Major) Biology
Subplan/Option Botany

Catalog Year 2012-2013
Minimum Units Required 180

Name _____
Student ID _____

TGA _____
GWT Satisfied Yes _____ No _____

Required Core Courses		
Course		Units
Foundations of Biology	BIO 122/122L	3/2
Foundations of Biology	BIO 123/123L	3/2
Biometrics	BIO 211/211L	3/1
Genetics	BIO 303	4
Scientific Communication	BIO 490	1
Total Units		19

Required Subplan/Option Core Courses		
Course		Units
Principles of Ecology	BIO 325/325L	3/1
Principles of Evolution	BIO 413	4
Form and Function in Plants	BOT 201/201L	3/1
California Flora	BOT 343/343L	1/2
Plant Ecology	BOT 421/421L	3/1
Plant Physiology	BOT 428/428L	4/1
Evolution of Plants	BOT 434/434L	3/2
Plant Anatomy	BOT 435/435L	2/2
Plant Tissue Culture	BOT 456/456L	3/1
Basic Microbiology	MIC 201/201L	3/1
Plant-Microbe Interactions	MIC 436/436L	2/2
Total Units		45

Required Support Courses		
Course		Units
Foundations of Biology (B2, B3)	BIO 121/121L	3/2
Environment and Society (B5) or Biodiversity Conservation (B5)	BIO 304 BIO 340	4 (4)
General Chemistry (B1, B3)	CHM 121/121L	3/1
General Chemistry	CHM 122/122L	3/1
General Chemistry	CHM 123/123L	3/1
Organic Chemistry	CHM 201/250L	3/1
Elements of Biochemistry	CHM 321/321L	3/1
Freshman English I (A2)	ENG 104	4
Freshman English II (A3)	ENG 105	4
Health, Nutrition & Integrated Being (E) or General Psychology (E)	FN 203 PSY 201	4 (4)
or Mind, Brain & Behavior: Integrated View (E)	PSY 210	(4)
or Sci. and Mathematics: Freshmen Exp. I (E) -and- Sci. and Mathematics: Freshmen Exp. II (E)	SCI 101/101A SCI 102/102A	(1/1) (1/1)
Calculus for Life Sciences (B4)	MAT 120	4
College Physics	PHY 121/121L	3/1
College Physics	PHY 122/122L	3/1
College Physics	PHY 123/123L	3/1
Basic Soil Science/Lab	PLT 231/231L	3/1
Statistics with Applications (B4)	STA 120	4
Total Units		65

Elective Support Courses	
Course	Units
Approved electives include any 200, 300, or 400 level courses in the Biological Sciences Department not specifically designed for non-majors. Only 2 units of BIO 200 or BIO 400 allowed. Only 4 units of BIO 441 or BIO 461 allowed. Only 2 units of BIO 462 allowed. Also included are any advanced Chemistry or Math courses and PHY 304/304L, PHY 410, PLT 131/131L, PLT 220/220L, PLT 323/323L, PLT 404/404L, PLT 421/421L, and PLT 427/427L. See advisor for approval of courses offered by other departments.	11
Total Units	11

General Education Requirements	
Area	Units
Area A Communication & Critical Thinking	12
1 Oral Communication	
2 Written Communication	
3 Critical Thinking	
Area B Mathematics & Natural Sciences	16
<i>Select at least one lab course from sub-area 1 or 2.</i>	
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

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

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

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
Freshman English I	ENG 104	A2
Freshman English II	ENG 105	A3
General Chemistry	CHM 121/121L	B1, B3
Foundations of Biology	BIO 121/121L	B2, B3
Calculus for Life Sciences	MAT 120	B4
or Statistics with Applications	STA 120	(B4)
Environment of Society	BIO 304	B5
or Biodiversity Conservation	BIO 340	(B5)
Health, Nutrition & Integrated Being	FN 203	E
or General Psychology	PSY 201	(E)
or Mind, Brain & Behavior: Integrated View	PSY 210	(E)
or Sci. and Mathematics: Freshmen Exp. 1 and Exp. 2	SCI 101/101A & SCI 102/102A	(E)
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.