



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

Plan (Major) **Biology**

Catalog Year **2015 - 2016**

Name _____

Subplan/Option **Botany**

Minimum Units Required **180**

Student ID _____

Required Core Courses		
Course		Units
Foundations of Biology: Reproduction and Development & Lab	BIO 122/122L	3/2
Foundations of Biology: Biodiversity & Lab	BIO 123/123L	3/2
Biometrics & Lab	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 & Lab	BIO 325/325L	3/1
Principles of Evolution	BIO 413	4
Form and Function in Plants & Lab	BOT 201/201L	3/1
California Flora & Lab	BOT 343/343L	1/2
Plant Ecology & Lab	BOT 421/421L	3/1
Plant Physiology & Lab	BOT 428/428L	4/1
Evolution of Plants & Lab	BOT 434/434L	3/2
Plant Anatomy & Lab	BOT 435/435L	2/2
Plant Tissue Culture & Lab	BOT 456/456L	3/1
Basic Microbiology & Lab	MIC 201/201L	3/1
Plant-Microbe Interactions & Lab	MIC 436/436L	2/2
Total Units		45

Required Support Courses		
Course		Units
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.		
Foundations of Biology: Energy and Matter Cycles and Flows & Lab (B2,B3)	BIO 121/121L	3/2
Environment and Society (B5)	BIO 304	4
or Biodiversity Conservation (B5)	BIO 340	(4)
General Chemistry & Lab (B1,B3)	CHM 121/121L	3/1
General Chemistry & Lab	CHM 122/122L	3/1
General Chemistry & Lab	CHM 123/123L	3/1
Elements of Organic Chemistry & Lab	CHM 201/250L	3/1
Elements of Biochemistry & Lab	CHM 321/321L	3/1
Freshman English II (A3)	ENG 105	4
or Critical Thinking (A3)	PHL 202	(4)
Stretch Composition III (A2)	ENG 107	4
or Advanced Stretch Composition II (A2)	ENG 109	(4)
or First-Year Composition (A2)	ENG 110	(4)
Calculus for the Life Sciences (B4)	MAT 120	4
College Physics & Lab	PHY 121/121L	3/1
College Physics & Lab	PHY 122/122L	3/1
College Physics & Lab	PHY 123/123L	3/1
Basic Soil Science & Lab	PLT 231/231L	3/1
Health, Nutrition and the Integrated Being (E)	FN 203	4
or General Psychology (E)	PSY 201	(4)
or Mind, Brain, and Behavior: Integrated View (E)	PSY 210	(4)
or Sci and Math: Freshman Experience I (E)	SCI 101/101A	(1/1)
and Sci and Math: Freshman Experience II (E)	SCI 102/102A	(1/1)
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 PLT 131/131L, PLT 220/220L, PLT 404/404L, PLT 421/421L, PLT 427/427L, PHY 304/304L, and PHY 410.	11
See advisor for approval of courses offered by other departments.	
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 subarea 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	
a. United States History	
b. Introduction to American Government	
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	
Requirement	Units
Courses that satisfy this requirement may also satisfy GE Area D1	8

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

All persons who receive undergraduate degrees from Cal Poly Pomona must pass the Graduation Writing Test (GWT). The test must be taken by the quarter following completion of 120 units for undergraduates.