## California State Polytechnic University, Pomona Degree Curriculum Sheet

	Degree Curriculum Sheet	
Plan (Major) <u>Biology, B.S.</u>	Catalog Year2017-2018	Name
ubplan/Option <u>Botany</u>	Minimum Units Required180	Student ID
Required Core Courses	Required Support Courses Con't.	General Education Requirements
BIO 122/122L - Foundations of Biology: Reproduction and Development (3/2)	ENG 130 - Freshman English II (4) (A3) or	Area A. Communication and Critical Thinking (12 units)
BIO 123/123L - Foundations of Biology: Biodiversity (3/2) BIO 211/211L - Biometrics (3/1)	PHL 202 - Critical Thinking (4) (A3) (A3)	1. Oral Communication
BIO 303 - Genetics (4)		2. Written Communication
BIO 490 - Scientific Communication (1)	ENG 107 - Stretch Composition III (4) (A2) or	3. Critical Thinking
	ENG 109 - Advanced Stretch Composition II (4) (A2) or	Area B. Mathematics and Natural Sciences (16 units)
Total Units 19	ENG 110 - First-Year Composition (4) (A2)	1. Physical Science
	MAT 120 - Calculus for the Life Sciences (4) (B4)	2. Biological Science
Required Subplan/Option Core Courses		3. Laboratory Activity
	PHY 121 - College Physics (3) and	4. Mathematics/Quantitative Reasoning
BIO 325/325L - Principles of Ecology (3/1)	PHY 121L - College Physics Laboratory (1)	5. Science and Technology Synthesis
BIO 413 - Principles of Evolution (4)		Area C. Humanities (16 units)
BOT 201/201L - Form and Function in Plants (3/1)	PHY 122 - College Physics (3) and	1. Visual and Performing Arts
BOT 343/343L - California Flora (1/2)	PHY 122L - College Physics Laboratory (1)	2. Philosophy and Civilization
BOT 428/428L - Plant Physiology (4/1)		3. Literature and Foreign Languages
BOT 434/434L - Evolution of Plants (3/2)	PHY 123 - College Physics (3) and	4. Humanities Synthesis
BOT 435/435L - Plant Anatomy (2/2) BOT 456/456L - Plant Tissue Culture (3/1)	PHY 123L - College Physics Laboratory (1)	Area D. Social Sciences (20 units)
MIC 201/201L - Basic Microbiology (3/1)	PLT 231/231L - Basic Soil Science (3/1)	1. U.S. History, Constitution, and American Ideals
MIC 436/436L - Plant-Microbe Interactions (2/2)		a. United States History
	FN 203 - Health, Nutrition and the Integrated Being (4) (E) or	b. Introduction to American Government
Total Units 41		2. History, Economics, and Political Science
Required Support Courses	PSY 201 - General Psychology (4) (E) or	3. Sociology, Anthropology, Ethnic and Gender Studies
		4. Social Science Synthesis
	PSY 210 - Mind, Brain, and Behavior: An Integrated View (4) (E) or	Area E. Lifelong Understanding and Self-development (4 units)
The following major support courses should be used to satisfy the indicated GE requirements. If these courses are not used to satisfy GE, the total units to	SCI 101/101A - Science and Mathematics: Freshman Experience I (1/1) (E) and	( =)
degree may be more than 180 units.	SCI 102/102A - Science and Mathematics: Freshman Experience II (1/1) (E) and SCI 102/102A - Science and Mathematics: Freshman Experience II (1/1) (E)	Total Units 68
BIO 121/121L - Foundations of Biology: Energy and Matter - Cycles and Flows (3/2) (B2, B3)	STA 120 - Statistics with Applications (4) (B4)	
		American Institutions
BIO 304 - Environment and Society (4) (B5) or	Total Units 65	Courses that satisfy this requirement may also satisfy GE Area D1. 8
BIO 340 - Biodiversity Conservation (4) (B5)		
	Elective Support Courses	American Cultural Perspectives Requirement
CHM 121 - General Chemistry (3) (B1) and	Approved electives include any 200, 300, or 400 level courses in the Biological	Refer to the University Catalog General Education Program sec-
CHM 121L - General Chemistry Laboratory (1) (B3)	Sciences Department not specifically designed for non-majors. Only 2 units of BIO	tion for a list of courses that satisfy this requirement. Course may
	200 or BIO 400 allowed. Only 4 units of BIO 441 or BIO 461 allowed. Only 2 units	also satisfy major, minor, GE, or unrestricted elective require-
CHM 122 - General Chemistry (3) and	of BIO 462 allowed. Also included are any advanced Chemistry or Math courses	Iments.
CHM 122L - General Chemistry Laboratory (1)	and PLT 131/131L, PLT 220/220L, PLT 404/404L, PLT 421/421L, PLT 427/427L,	All persons who receive undergraduate degrees from Cal Poly Pomona must
CHM 123 - General Chemistry (3) and	PHY 304/304L, and PHY 410. See advisor for approval of courses offered by other	pass the Graduation Writing Test (GWT). The test must be taken by the
CHM 123L - General Chemistry Laboratory (1)	departments.	quarter following completion of 120 units for undergraduates.
	Total Units 15	
CHM 201 - Elements of Organic Chemistry (3) and		
CHM 250L - Elements of Organic Chemistry Laboratory (1)		
CHM 321/321L - Elements of Biochemistry (3/1)		