



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

Plan (Major) **Biology, B.S.**

Catalog Year **2017-2018**

Name _____

Subplan/Option **General Biology**

Minimum Units Required **180**

Student ID _____

Required Core Courses
BIO 122/122L - Foundations of Biology: Reproduction and Development (3/2) BIO 123/123L - Foundations of Biology: Biodiversity (3/2) BIO 211/211L - Biometrics (3/1) BIO 303 - Genetics (4) BIO 490 - Scientific Communication (1)
Total Units 19

Required Subplan/Option Core Courses
BIO 310 - Cell and Molecular Biology (4) BIO 325/325L - Principles of Ecology (3/1) BIO 413 - Principles of Evolution (4) BIO 428/428L - Cellular Physiology (4/1) or BOT 428/428L - Plant Physiology (4/1) or MIC 428/428L - Microbial Physiology (4/1) or ZOO 428/428L - Animal Physiology (4/1) BOT 201/201L - Form and Function in Plants (3/1) MIC 201/201L - Basic Microbiology (3/1) ZOO 201/201L - Animal Biology (3/1)
Total Units 29

Elective Subplan/Option Core Courses
300-400 level courses offered by the Biological Sciences Department (other than BIO 400, BIO 441, BIO 461, BIO 462) of which at least 12 units must be at the 400-level. Courses specifically designed for non-majors cannot be used.
Total Units 19

Required Support Courses
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. BIO 121/121L - Foundations of Biology: Energy and Matter - Cycles and Flows (3/2) (B2, B3) BIO 304 - Environment and Society (4) (B5) or BIO 340 - Biodiversity Conservation (4) (B5) CHM 121 - General Chemistry (3) (B1) and CHM 121L - General Chemistry Laboratory (1) (B3) CHM 122 - General Chemistry (3) and CHM 122L - General Chemistry Laboratory (1) CHM 123 - General Chemistry (3) and CHM 123L - General Chemistry Laboratory (1) CHM 201 - Elements of Organic Chemistry (3) and CHM 250L - Elements of Organic Chemistry Laboratory (1)
Continue next column

Required Support Courses Con't
CHM 321/321L - Elements of Biochemistry (3/1) ENG 130 - Freshman English II (4) (A3) or PHL 202 - Critical Thinking (4) (A3) ENG 107 - Stretch Composition III (4) (A2) or ENG 109 - Advanced Stretch Composition II (4) (A2) or ENG 110 - First-Year Composition (4) (A2) FN 203 - Health, Nutrition and the Integrated Being (4) (E) or PSY 201 - General Psychology (4) (E) or PSY 210 - Mind, Brain, and Behavior: An Integrated View (4) (E) or SCI 101/101A - Science and Mathematics: Freshman Experience I (1/1) (E) and SCI 102/102A - Science and Mathematics: Freshman Experience II (1/1) (E) MAT 120 - Calculus for the Life Sciences (4) (B4) PHY 121 - College Physics (3) and PHY 121L - College Physics Laboratory (1) PHY 122 - College Physics (3) and PHY 122L - College Physics Laboratory (1) PHY 123 - College Physics (3) and PHY 123L - College Physics Laboratory (1) STA 120 - Statistics with Applications (4) (B4)
Total Units 61

Elective Support Courses
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. See advisor for approval of courses offered by other departments.
Total Units 12

General Education Requirements
Area A Communication & Critical Thinking (12 units) 1. Oral Communication 2. Written Communication 3. Critical Thinking
Area B Mathematics & Natural Sciences (16 units) 1. Physical Science 2. Biological Science 3. Laboratory Activity 4. Math/Quantitative Reasoning 5. Science & Technology Synthesis
Area C Humanities (16 units) 1. Visual and Performing Arts 2. Philosophy and Civilization 3. Literature and Foreign Language 4. Humanities Synthesis
Area D Social Sciences (20 units) 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 units)
Total Units 68

American Institutions Courses that satisfy this requirement may also satisfy GE Area D1	8
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American Cultural Perspectives Requirement Refer to catalog for list of courses that satisfy this requirement. Course may also satisfy major, minor, GE, or unrestricted elective requirements.	4
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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.