



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

Plan (Major) Biology  
Subplan/Option General Biology

Catalog Year 2013-2014  
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         |
| <b>Total Units</b>       |              | <b>19</b> |

| Required Subplan/Option Core Courses |              |           |
|--------------------------------------|--------------|-----------|
| Course                               |              | Units     |
| Cell and Molecular Biology           | BIO 310      | 4         |
| Principles of Ecology                | BIO 325/325L | 3/1       |
| Principles of Evolution              | BIO 413      | 4         |
| Cellular Physiology                  | BIO 428/428L | 4/1       |
| or Plant Physiology                  | BOT 428/428L | (4/1)     |
| or Microbial Physiology              | MIC 428/428L | (4/1)     |
| or Animal Physiology                 | ZOO 428/428L | (4/1)     |
| Form and Function in Plants          | BOT 201/201L | 3/1       |
| Basic Microbiology                   | MIC 201/201L | 3/1       |
| Animal Biology                       | ZOO 201/201L | 3/2       |
| <b>Total Units</b>                   |              | <b>30</b> |

| Elective Subplan/Option Core Courses   |  |           |
|--|--|-----------|
| Course   |  | Units     |
| 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. |  | 18        |
| Courses specifically designed for non-majors cannot be used.   |  |           |
| <b>Total Units</b>   |  | <b>18</b> |

| Required Support Courses                       |              |           |
|--|--------------|-----------|
| Course   |              | Units     |
| Foundations of Biology (B2, B3)                | BIO 121/121L | 3/2       |
| Environment and Society (B5)                   | BIO 304      | 4         |
| or Biodiversity Conservation (B5)              | BIO 340      | (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)       | FN 203       | 4         |
| or General Psychology (E)                      | PSY 201      | (4)       |
| or Mind, Brain & Behavior: Integrated View (E) | PSY 210      | (4)       |
| or Sci. and Mathematics: Freshmen Exp. I (E)   | SCI 101/101A | (1/1)     |
| -and-  |              |           |
| Sci. and Mathematics: Freshmen Exp. II (E)     | SCI 102/102A | (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       |
| Statistics with Applications (B4)              | STA 120      | 4         |
| <b>Total Units</b>                             |              | <b>61</b> |

| 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. See advisor for approval of courses offered by other departments. |  | 12        |
| <b>Total Units</b>   |  | <b>12</b> |

| General Education Requirements                              |  |           |
|---|--|-----------|
| Area  |  | Units     |
| <b>Area A Communication &amp; Critical Thinking</b>         |  | <b>12</b> |
| 1 Oral Communication  |  |           |
| 2 Written Communication                                     |  |           |
| 3 Critical Thinking   |  |           |
| <b>Area B Mathematics &amp; Natural Sciences</b>            |  | <b>16</b> |
| <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                            |  |           |
| <b>Area C Humanities</b>                                    |  | <b>16</b> |
| 1 Visual and Performing Arts                                |  |           |
| 2 Philosophy and Civilization                               |  |           |
| 3 Literature and Foreign Language                           |  |           |
| 4 Humanities Synthesis                                      |  |           |
| <b>Area D Social Sciences</b>                               |  | <b>20</b> |
| 1 U.S. History, Constitution, American Ideals               |  |           |
| 2 History, Economics and Political Science                  |  |           |
| 3 Sociology, Anthropology, Ethnic & Gender Studies          |  |           |
| 4 Social Science Synthesis                                  |  |           |
| <b>Area E Lifelong Understanding &amp; Self Development</b> |  | <b>4</b>  |
| <b>Total Units</b>  |  | <b>68</b> |

|                              |   |   |
|------------------------------|---|---|
| <b>American Institutions</b> | Courses that satisfy this requirement may also satisfy G.E. Area D1 | 8 |
|------------------------------|---|---|

|   |   |   |
|---|---|---|
| <b>American Cultural Perspectives Requirement</b> | 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 and 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. I and Exp. II | 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.