# California State Polytechnic University, Pomona Degree Curriculum Sheet 

Plan (Major) Biology
Subplan/Option Zoology

| 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 | BIO 211/211L | 3/1 |
| Genetics | BIO 303 | 4 |
| Scientific Communication | BIO 490 | 1 |
|  | Total Units | 19 |
| Required Subplan/Option Core Courses |  |  |
| Course |  | Units |
| Cell and Molecular Biology | BIO 310 | 4 |
| Principles of Ecology \& Lab | BIO 325/325L | 3/1 |
| Principles of Evolution | BIO 413 | 4 |
| Intro to Invertebrate Zoology \& Lab | ZOO 237/237L | 3/2 |
| Intro to Vertebrate Zoology \& Lab | ZOO 238/238L | 3/2 |
| Animal Physiology \& Lab | ZOO 428/428L | 4/1 |
|  | Total Units | 27 |
| Elective Subplan/Option Core Courses |  |  |
| Course |  | Units |
| 22 units of upper division courses must be completed from approved courses included in one of two clusters (Physiology and Neuroscience/Biodiversity and Systematics). Students do not need to declare a cluster. Courses may be chosen from either of the two clusters indicated below; however, a minimum of 3 units must be completed from each cluster. See below for approved courses. |  | 22 |
| Physiology and Neuroscience |  |  |
| Developmental Biology \& Lab | BIO 320/320L | (4/1) |
| Biophysics | BIO 410 | (4) |
| Neuroscience | BIO 424 | (4) |
| Neuroanatomy \& Lab | BIO 426/426L | (4/1) |
| Cellular Physiology \& Lab | BIO 428/428L | (4/1) |
| Radiation Biology \& Lab | BIO 431/431L | (3/1) |
| Concepts of Molecular Biology | BIO 450 | (4) |
| Molecular Biology Techniques | BIO 451 | (3) |
| Molecular Biology of Recombinant DNA \& Lab | BIO 451L | (2/2) |
| Stem Cell Biology \& Lab | BIO 465/465L | (3/1) |
| Special Topics for Upper Division Students | BIO 499 | (1-4) |
| Histology \& Lab | ZOO 422/422L | (2/3) |
| Evolutionary Ecomorphology \& Lab ZOO 439/439L |  | (2/2) |
|  |  |  |

Catalog Year 2014-2015

Minimum Units Required $\qquad$

Name
Student ID

| General Education Requirements |  |
| :--- | :---: |
| Area | Units |
| Area A Communication \& Critical Thinking | 12 |
| 1. Oral Communication |  |
| 2. Written Communication |  |
| 3. Critical Thinking | 16 |
| Area B Mathematics \& Natural Sciences |  |

Select at least one lab course from subarea 1 or 2

1. Physical Science
2. Biological Science
3. Laboratory Activity
4. Math/Quantitative Reasoning
5. Science \& Technology Synthesis

## Area C Humanities

1. Visual and Performing Arts
2. Philosophy and Civilization
3. Literature and Foreign Language
4. Humanities Synthesis

## Area D Social Sciences

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
Courses that satisfy this requirement may also satisfy GE Area D1
eath, Nutrion and the Integrated Being (E)
or General Psychology (E)
or Mind, Brain \& Behavior: Integrated View (E)
or Sci and Math: Freshmen Experience I (E)
and Sci and Math: Freshmen Experience II (E)

## Elective Support Courses

| Course | Units |
| :--- | :---: |
| Approved electives include any 200, 300, or 400-level courses in the <br> Biological Sciences Department not specifically designed for non- | 11 | Biological Sciences Department not specifically designed for nonmajors. 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 Approved electives include any advanced chemistry or math course. See advisor for approval of courses offered by other departments.

