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California State Polytechnic University, Pomona Degree Curriculum Sheet

180

Plan (Major) **Biology**

Subplan/Option **Zoology**

Concepts of Molecular Biology

Molecular Biology Techniques

Stem Cell Biology & Lab

Histology & Lab

Molecular Biology Techniques Lab

Evolutionary Ecomorphology & Lab

Molecular Biology of Recombinant DNA

Special Topics for Upper Division Students

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 Course	es	
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 Course	s	
Course		Units
22 units of upper division courses must be com courses included in one of two clusters (Physio ence/Biodiversity and Systematics). Students d a cluster. Courses may be chosen from either c indicated below; however, a minimum of 3 units from each cluster. See below for approved cour	logy and Neurosci- o not need to declare of the two clusters a must be completed	22
Physiology and Neuroscience		
Developmental Biology	BIO 320	
Developmental Biology Laboratory	BIO 320L	(1)
Biophysics	BIO 410	
Neuroscience	BIO 424	
Neuroanatomy & Lab Cellular Physiology & Lab	BIO 426/426L BIO 428/428L	(4/1) (4/1)
Radiation Biology & Lab	BIO 428/428L BIO 431/431L	(3/1)

BIO 450

BIO 451

BIO 451L

BIO 499

BIO 455/455L

BIO 465/465L

ZOO 422/422L

ZOO 439/439L

Continue to next column

(4)

(3)

(2)

(2/2)

(3/1)

(1-4)

(2/3)

(2/2)

Catalog Year 2015 - 2016

Minimum Units Required

Biodiversity and Systematics BIO 330 (3) Marine Biology BIO 330 (3) Population Ecology BIO 418 (3) Marine Ecology & Lab BIO 442/442L (3/2) Biology of Species Invasions BIO 442/442L (3/2) California Flora & Lab BOT 343/343L (1/2) Entomology & Lab ZOO 426/426L (3/1) Merpetology & Lab ZOO 426/426L (3/1) Ornithology & Lab ZOO 425/435L (3/1) Corrse Unit 22 Required Support Courses Unit 22 Required Support Courses Unit 3/2 Foundations of Biology & 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 CHM 121/121L 3/1 General Chemistry & Lab CHM 122/122L 3/1 Organic Chemistry & Lab CHM 321/321L 3/1 Freshman English II (A3) ENG 105 4 or Advanced Stretch Composition II (A2) ENG 109 (4	Course		Unit	
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	and Sci and Math: Freshmen Experience II (E)		(1/1	
Elective Support Courses		Total Units	61	
	Elective Support Courses			
	Course		Unit	

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.

Total Units
61

Elective Support Courses
Image: Course for the following courses in the strength of the following courses in the st

Total Units

11

Name _____ Student ID

Area	Unit
Area A Communication & Critical Thinking	12
1. Oral Communication	
2. Written Communication	
3. Critical Thinking	
Area B Mathematics & Natural Sciences	16
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	16
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
merican Institutions	
ourses that satisfy this requirement may also satisfy GE Area D1	8
merican Cultural Perspectives Requirement efer to catalog for list of courses that satisfy this requirement.	4
ourse may also satisfy major, minor, GE, or unrestricted elective equirements.	
Il persons who receive undergraduate degrees from Cal Poly Por	iona mus