



Bachelor of Science BIOLOGY: Ecology, Evolution and Organismal Biology Emphasis

Advisement Form 2010-2011

Name _____ ID _____

Lower Division Major Requirements (8 units)	Un.	Instit.	Course	Units	Grade	Term	Prerequisites, GE & Comments
BIOL 200 Principles of Organismal and Population Biology	4						GE: B2
BIOL 201 Principles of Cell and Molecular Biology	4						Prereq: CHEM 105 or 121; GE: B2
Required Supporting Courses (21 units)							
<i>An organic chemistry equivalent course taken at a community college may be accepted for the Biology major in lieu of CHEM 311.</i>							
CHEM 121 General Chemistry I	4						Prereq: Passing score on CHEM placement exam or CHEM 105; GE: B1
CHEM 122 General Chemistry II	4						Prereq: CHEM 121 with a C or better; GE: B1
CHEM 311 Organic Chemistry	3						Prereq: CHEM 122 with a C or better
GEOL 122 Historical Geology	3						GE: B1
BIOL 203 Quantitative Methods for Biology	3						Prereq: Passing score on the ELM or MATH 105 or equivalent; GE: B3, B4
MATH 150 Calculus I	4						Prereq: Passing score on the Calculus Placement Exam or MATH 105; GE: B3
Upper Division Requirements in the major (42-45 units)							
Required Core Courses (26 units)							
BIOL 301 Microbiology	4						Prereq: BIOL 201 with a C or better & CHEM 122
BIOL 302 Genetics	4						Prereq: BIOL 201 with a C or better & CHEM 122
BIOL 303 Evolutionary Biology	3						Prereq: BIOL 200 & 201
BIOL 311 Plant Biology and Ecology	4						
BIOL 433 Ecology and the Environment	4						Prereq: BIOL 200; GE: B2, UDIGE
BIOL 499 Senior Capstone in Biology	3						Prereq: Consent of instructor
BIOL 310 Vertebrate Biology (or) BIOL 316 Invertebrate Zoology	4						Prereq: BIOL 200
Ecology/Evolution (6-7 units) Select <u>two</u> courses from the following list:							
BIOL/ESRM 313 Conservation Biology	4						Prereq: BIOL 200
BIOL 406 Evolutionary Biogeography	3						Prereq: BIOL 303
BIOL 407 Behavioral Ecology	3						Prereq: BIOL 200
ESRM 352 Theory and Practice of Ecological Restoration	3						
Organismal Biology (4 units) Select <u>one</u> course from the following list:							
BIOL 310 Vertebrate Biology (if not taken as part of core)	4						Prereq: BIOL 200
BIOL 312 Marine Biology	4						Prereq: BIOL 200
BIOL 316 Invertebrate Zoology (if not taken as part of core)	4						Prereq: BIOL 200
BIOL 317 Parasitology	4						Prereq: BIOL 200
BIOL 450 Ichthyology: The Biology of Fishes	4						Prereq: BIOL 200

Organismal Biology, cont.	Un.	Instit.	Course	Units	Grade	Term	Prerequisites, GE & Comments
BIOL 451 Ornithology	4						Prereq: BIOL 200 & 201
Physiology/Developmental/Molecular Biology (3-4 units) <i>Select <u>one</u> course from the following list:</i>							
BIOL 300 Cell Biology	4						Prereq: BIOL 201 with a C or better & CHEM 122
BIOL 304 Comparative Animal Physiology	3						Prereq: BIOL 200 & 201
BIOL 400 Molecular Biology	4						Prereq: BIOL 300 or 302 with a C or better
BIOL 422 Molecular Plant Physiology	4						Prereq: BIOL 300 with a C or better
BIOL 427 Developmental Biology	4						Prereq: BIOL 300 with a C or better & CHEM 122
Cross Disciplinary Courses (3-4 units) <i>Select <u>one</u> course from the following list:</i>							
CHEM 301 Environmental Chemistry- Atmosphere and Climate	3						Prereq: CHEM 122 with a C or better
GEOL 321 Environmental Geology	4						GE: B1
ESRM 328 Introduction to Geographic Information Systems	3						Prereq: ESRM 100 or consent of instructor; GE: B4

Additional University Graduation Requirements

9 Units Upper Division Interdisciplinary GE (UDIGE) at CSUCI (courses numbered 330-349 or 430-449)		
<i>Upper division standing or instructor consent required for these courses</i>		
Course 1 <u> BIOL 433 </u>	Course 2 _____	Course 3 _____ (outside major)
American Institutions Requirements: US History _____ State and Local Gov't _____ (choose from HIST 270, 271, 272, 275 or 350) (choose POLS 150)		
<i>Students must receive a grade of C or better in the Language and Multicultural Requirements</i>		
Language Requirement: GE C3a _____ (one semester of college level language)		
Multicultural Requirement: GE C3b _____		
<i>Minimum total units to graduate: 120 of which 40 must be upper division. Please see catalog for a complete list of graduation requirements.</i>		
Advisor _____		Date Completed: _____
Advisor Comments: _____ _____		