



California State University Channel Islands

Bachelor of Science

BIOLOGY: Ecology, Evolution & Organismal Biology Emphasis

Advisement Form 2007-2008

Name _____ ID _____

B.S. in Biology with Emphasis in Ecology, Evolution & Organismal major is 71-74 units. A minimum of 120 units are required for graduation.

Lower Division Major Requirements (8 units)		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 <i>Must receive grade of C or better</i>	4						Prereq: CHEM 105 or 121; GE: B2
Required Supporting Courses (14 units) <i>An Organic Chemistry I equivalent course with laboratory taken at a community college may be accepted for the Biology major in lieu of CHEM 311.</i>							
CHEM 121 General Chemistry I <i>Must receive grade of C or better</i>	4						Prereq: 1 year high school chemistry or CHEM 105; GE: B1
CHEM 122 General Chemistry II <i>Must receive grade of C or better</i>	4						Prereq: CHEM 121; GE: B1
CHEM 311 Organic Chemistry <i>Must receive grade of C or better</i>	3						Prereq: CHEM 122 with a grade of C or better
GEOL 122 Historical Geology	3						GE: B1
Statistics, Mathematics and Computer Applications (7 units)							
BIOL 203 Quantitative Methods for Biology	3						Prereq: A passing score on the Entry Level Math Exam (ELM) or MATH 105 or equivalent; GE: B3, B4
MATH 150 Calculus I	4						Prereq: A 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 grade of C or better & CHEM 122
BIOL 302 Genetics	4						Prereq: BIOL 201 with a grade of C or better & CHEM 122
BIOL 303 Evolutionary Biology	3						Prereq: BIOL 200 & BIOL 201
BIOL 311 Plant Biology and Ecology	4						
BIOL 310 Vertebrate Biology <i>Or</i> BIOL 316 Invertebrate Zoology	4						Prereq: BIOL 200
BIOL 433 Ecology and the Environment	4						Prereq: BIOL 200; GE: B2, INTD
BIOL 499 Senior Capstone in Biology	3						Prereq: Consent of instructor
Ecology/Evolution (6-7 units) <i>Select two courses from the following list:</i>							
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 Research	3						
Organismal Biology (4 units) <i>Select one course from the following list:</i>							
BIOL 310 Vertebrate Biology <i>(if not taken as part of a core)</i>	4						Prereq: BIOL 200
BIOL 312 Marine Biology	4						Prereq: BIOL 200
BIOL 316 Invertebrate Zoology <i>(if not taken as part of a core)</i>	4						Prereq: BIOL 200

Organismal Biology, Cont.		Instit.	Course	Units	Grade	Term	Prerequisites, GE & comments
BIOL 317 Parasitology	4						Prereq: BIOL 200
BIOL 450 Ichthyology: The Biology of Fishes	4						Prereq: BIOL 200
BIOL 451 Ornithology	4						Prereq: BIOL 200 & 201
Physiology/Developmental/Molecular Biology (3-4 units) <i>Select one course from the following list:</i>							
BIOL 300 Cell Biology <i>Must receive grade of C or better</i>	4						Prereq: BIOL 201 with a grade of C or better & CHEM 122
BIOL 304 Comparative Animal Physiology	3						Prereq: BIOL 200 & BIOL 201
BIOL 400 Molecular Biology	4						Prereq: BIOL 300 or BIOL 302 with a grade of C or better
BIOL 422 Molecular Plant Physiology	4						Prereq: BIOL 300 with a grade of C or better
BIOL 427 Developmental Biology	4						Prereq: BIOL 300 with a grade of C or better and CHEM 122
Cross Disciplinary Courses (3-4 units) <i>Select one course from the following list:</i>							
CHEM 301 Environmental Chemistry	3						Prereq: CHEM 122 with a grade of C or better
GEOL 321 Environmental Geology	4						GE: B1
ESRM 328 Introduction to Geographic Information Systems	3						Prereq: ESRM 100 or consent on the instructor

Additional University Graduation Requirements

9 Units Upper Division Interdisciplinary GE at CSUCI (courses numbered 330-349 or 430-449)

Course 1 BIOL 433 Course 2 _____ Course 3 (outside of major) _____

American Institutions Requirements: US History _____ State and Local Gov't POLS 150
(Choose from HIST 270, 271, 272, 275 or 350)

Students must receive a grade of C or better in the language and Multicultural Requirements

Language Requirement: GE C3a _____
(one semester of college level language)

Multicultural Requirement: GE C3b _____

Minimum total units to graduate: 120 of which 40 must be upper division. Please see catalog for a complete list of graduation requirements.

Advisor _____ Date Completed: _____

Advisor Comments: _____
