



California State University Channel Islands

Bachelor of Science

BIOLOGY

Advisement Form 2007-2008

Name _____ ID _____

B.S. in Biology Major is 78 units. 120 minimum 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 (31 units)							
Chemistry (16 units) <i>A year-long organic chemistry sequence with laboratory taken at a community college may be accepted in lieu of CHEM 311, 312, 314, and 315.</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 <i>Must receive grade of C or better</i>	3						Prereq: CHEM 122
CHEM 312 Organic Chemistry I Lab <i>Must receive grade of C or better</i>	1						Prereq: CHEM 311 (or taken concurrently)
CHEM 314 Organic Chemistry II <i>Must receive grade of C or better</i>	3						Prereq: CHEM 311
CHEM 315 Organic Chemistry II Lab	1						Prereq: CHEM 311, 312, and 314 (or taken concurrently)
Physics (8 units)							
Select either							
PHYS 100 Introduction to Physics I	4						GE: B1
PHYS 101 Introduction to Physics II	4						Prereq: PHYS 100; GE: B1
Or							
PHYS 200 General Physics I	4						Prereq: MATH 150; GE: B1
PHYS 201 General Physics II	4						Prereq: PHYS 200; GE: B1
Statistics and Mathematics (7 units)							
BIOL 203 Quantitative Methods for Biology	3						Prereq: A passing score 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 Major Requirements (39 units)							
Biology (25 Units)							
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 302 Genetics <i>Must receive grade of C or better</i>	4						Prereq: BIOL 201 with a grade of C or better & CHEM 122
BIOL 303 Evolutionary Biology	3						Prereq: BIOL 200 & BIOL 201
BIOL 304 Comparative Animal Physiology	3						Prereq: BIOL 200 & BIOL 201
BIOL 400 Molecular Biology	4						Prereq: BIOL 300 or 302 with a grade of C or better
BIOL 433 Ecology and the Environment	4						Prereq: BIOL 200; GE: B2 & INTD
BIOL 499 Senior Capstone in Biology	3						Prereq: Consent of instructor

		Instit.	Course	Units	Grade	Term	Prerequisites, GE & comments
Electives in Biology (14 units) Select from the following list of courses, one of which must be a lab course.							
BIOL 301 Microbiology	4						Prereq: BIOL 201 with a grade of C or better & CHEM 122
BIOL 310 Vertebrate Biology	4						Prereq: BIOL 200
BIOL 311 Plant Biology and Ecology	4						
BIOL 312 Marine Biology	4						Prereq: BIOL 200
BIOL/ESRM 313 Conservation Biology	4						Prereq: BIOL 200
BIOL 316 Invertebrate Zoology	4						Prereq: BIOL 200
BIOL 317 Parasitology	4						Prereq: BIOL 200
BIOL 401 Biotechnology and Recombinant DNA Techniques	5						Prereq: BIOL 400 with a grade of C or better
BIOL 402 Toxicology	3						Prereq: BIOL 201 with a grade of C or better & CHEM 122
BIOL 403 Foundations of Structural Biology	4						Prereq: BIOL 300
BIOL 404 Plant and Animal Tissue Culture	3						
BIOL 405 Biochemical Engineering	4						Prereq: CHEM 318
BIOL 406 Evolutionary Biogeography	3						Prereq: BIOL 303
BIOL 407 Behavioral Ecology	3						Prereq: BIOL 200
BIOL 408 Nanobiotechnology	3						Prereq: BIOL 400
BIOL 420 Cellular and Molecular Immunology	4						Prereq: BIOL 300 with a grade of C or better & CHEM 122
BIOL 421 Virology	3						Prereq: BIOL 301 with a grade of C or better & CHEM 122
BIOL 422 Molecular Plant Physiology	4						Prereq: BIOL 300 with a grade of C or better
BIOL 423 Cellular and Molecular Neurobiology	3						Prereq: BIOL 300 with a grade of C or better & CHEM 122
BIOL 424 Human Physiology	3						Prereq: BIOL 300 with a grade of C or better & CHEM 122
BIOL 425 Human Genetics	3						Prereq: BIOL 300 & 302 with grades of C or better & CHEM 122
BIOL 427 Developmental Biology	4						Prereq: BIOL 300 with a grade of C or better & CHEM 122
BIOL 428 Biology of Cancer	3						Prereq: BIOL 300 with a grade of C or better & CHEM 122
BIOL 431 Bioinformatics	4						Prereq: BIOL 302 with a grade of C or better; GE: B2, B4, & INTD
BIOL 432 Principles of Epidemiology and Environmental Health	3						Prereq: BIOL 201 with a grade of C or better and CHEM 122. GE: B2, D & INTD
BIOL 450 Ichthyology: The Biology of Fishes	4						Prereq: BIOL 200
BIOL 451 Ornithology	4						Prereq: BIOL 200, 201
<i>No more than 2 units from the following may be used towards the 14 units of electives required in Biology</i>							
BIOL 492 Internship	2-3						Prereq: Consent of the instructor and program approval
BIOL 494 Independent Research	1-3						Prereq: Consent of the instructor and program approval
BIOL 497 Directed Study	1-3						Prereq: Consent of the instructor and program approval

Additional University Graduation Requirements

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

Course 1 (in major) BIOL 433 Course 2 (in major) _____
(may choose BIOL 431 or 432) Course 3 (outside of major) _____
(Choose from GE A-E)

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: _____
