



California State University Channel Islands

Bachelor of Science

BIOLOGY: Clinical Laboratory Emphasis

Advisement Form 2008-2009

Name _____ ID _____

Lower Division Major Requirements (12 units)	Un.	Instit.	Course	Units	Grade	Term	Prerequisites, GE and Comments
BIOL 200 Principles of Organismal and Population Biology	4						GE: B2
BIOL 201 Principles of Cell and Molecular Biology <i>Must receive a C or better</i>	4						Prereq: CHEM 105 or 121; GE: B2
BIOL 217 Medical Microbiology	4						GE: B2
Required Supporting Courses (30-32 units)							
Chemistry (19-20 units)							
<i>An Organic Chemistry course with laboratory taken at a community college may be accepted in lieu of CHEM 311 and 312.</i>							
CHEM 121 General Chemistry I <i>Must receive a C or better</i>	4						Prereq: 1 year high school chemistry or CHEM 105; GE: B1
CHEM 122 General Chemistry II <i>Must receive a C or better</i>	4						Prereq: CHEM 121 with a C or better; GE: B1
CHEM 250 Quantitative Analysis	2						Prereq: CHEM 122 with a C or better; Corequisite: CHEM 251
CHEM 251 Quantitative Analysis Lab	2						Prereq: CHEM 122 with a C or better; Corequisite: CHEM 250
CHEM 311 Organic Chemistry I <i>Must receive a C or better</i>	3						Prereq: CHEM 122 with a C or better
CHEM 312 Organic Chemistry I Lab <i>Must receive a C or better</i>	1						Prereq: CHEM 311 (or taken concurrently) with a C or better
<i>Select <u>one</u> of the following:</i>							
CHEM 318 Biological Chemistry	3						Prereq: CHEM 311 with a C or better
CHEM 460 Biochemistry I	4						Prereq: CHEM 314 with a C or better
Physics (8 units)							
PHYS 100 Introduction to Physics I	4						GE: B1
PHYS 101 Introduction to Physics II	4						Prereq: PHYS 100; GE: B1
Statistics and Mathematics (3-4 units) <i>Select one of the following:</i>							
BIOL 203 Quantitative Methods for Biology	3						Prereq: A passing score on the 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 (37-39 units)							
Biology (33 units)							
BIOL 300 Cell Biology <i>Must receive a C or better</i>	4						Prereq: BIOL 201 with a C or better and CHEM 122
BIOL 302 Genetics <i>Must receive a C or better</i>	4						Prereq: BIOL 201 with a C or better and CHEM 122
BIOL 303 Evolutionary Biology	3						Prereq: BIOL 200, 201
BIOL 317 Parasitology	4						Prereq: BIOL 200
BIOL 318 Medical Mycology	4						Prereq: BIOL 200

Upper Division Major Requirements, cont.	Un.	Instit.	Course	Units	Grade	Term	Prerequisites, GE and Comments
BIOL 420 Cellular and Molecular Immunology	4						Prereq: BIOL 300 with a C or better and CHEM 122
BIOL 421 Virology	3						Prereq: BIOL 301 with a C or better and CHEM 122
BIOL 426 Hematology	4						Prereq: BIOL 300
BIOL 432 Principles of Epidemiology and Environmental Health	3						Prereq: BIOL 201 with a C or better and CHEM 122; GE: B2, D, INTD
<p>Other Required Biology Courses (4-6 units) If take CHEM 318 and BIOL 203, complete a minimum of <u>six</u> units from the following courses. Otherwise, complete minimum of <u>four</u> units from the following courses:</p>							
BIOL 400 Molecular Biology	4						Prereq: BIOL 300 or 302 with a C or better
BIOL 424 Human Physiology	3						Prereq: BIOL 300 with a C or better and CHEM 122
BIOL 425 Human Genetics	3						Prereq: BIOL 300, 302 with C's or better and CHEM 122

Additional University Graduation Requirements

9 Units Upper Division Interdisciplinary GE at CSUCI (courses numbered 330-349 or 430-449)		
Course 1 <u>BIOL 432</u>	Course 2 _____	Course 3 _____ (outside major)
American Institutions Requirements: US History _____ State and Local Gov't _____ <small>(Choose from HIST 270, 271, 272, 275 or 350) (choose POLS 150)</small>		
<i>Students must receive a grade of C or better in the language and Multicultural Requirements</i>		
Language Requirement: GE C3a _____ <small>(one semester of college level language)</small>		
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: _____		
