



California State University Channel Islands

# Bachelor of Science BIOLOGY: Clinical Laboratory Emphasis

## Advisement Form 2009-2010

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
<b>Required Supporting Courses (30-32 units)</b>							
<b>Chemistry (19-20 units)</b>							
<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: Passing score on CHEM Placement Exam 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	3						Prereq: CHEM 122 with a C or better; Corequisite: CHEM 251
CHEM 251 Quantitative Analysis Lab	1						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	1						Prereq: CHEM 311 (or taken concurrently) with a C or better
CHEM 318 Biological Chemistry <i>(or)</i>	3						Prereq: CHEM 311 with a C or better
CHEM 460 Biochemistry I	4						Prereq: CHEM 314 with a C or better
<b>Physics (8 units)</b>							
PHYS 100 Introduction to Physics I	4						GE: B1
PHYS 101 Introduction to Physics II	4						Prereq: PHYS 100; GE: B1
<b>Statistics and Mathematics (3-4 units) <i>Select one of the following:</i></b>							
BIOL 203 Quantitative Methods for Biology <i>(or)</i>	3						Prereq: Passing score on the ELM or MATH 105 or equivalent; GE: B3, B4
MATH 150 Calculus I	4						Prereq (MATH 150): Passing score on the Calculus Placement Exam or MATH 105; GE: B3
<b>Major Core Requirements (37-39 units)</b>							
<b>Biology (33 units)</b>							
BIOL 300 Cell Biology <i>Must receive a C or better</i>	4						Prereq: BIOL 201 with a C or better & CHEM 122
BIOL 302 Genetics <i>Must receive a C or better</i>	4						Prereq: BIOL 201 with a C or better & 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

Major Core 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 & CHEM 122
BIOL 421 Virology	3						Prereq: BIOL 301 with a C or better & 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 & CHEM 122; GE: B2, D, INTD
<p><b>Other Required Biology Courses (4-6 units)</b> If take CHEM 318 and BIOL 203, complete a minimum of <b>six</b> units from the following courses. Otherwise, complete minimum of <b>four</b> 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 & CHEM 122
BIOL 425 Human Genetics	3						Prereq: BIOL 300 & 302 with C's or better & CHEM 122

### Additional University Graduation Requirements

<b>9 Units Upper Division Interdisciplinary GE at CSUCI (courses numbered 330-349 or 430-449)</b>		
Course 1 <u>      BIOL 432      </u>	Course 2    _____	Course 3    _____ (outside major)
<b>American Institutions Requirements:</b> 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>		
<b>Language Requirement:</b> GE C3a _____ (one semester of college level language)		
<b>Multicultural Requirement:</b> 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: _____		
_____		