



California State University Channel Islands

Bachelor of Science in Chemistry

Biochemistry Option

Advisement Form 2007-2008

Name _____ ID _____

The BS in Chemistry with Biochemistry major consists of 70 units. 120 minimum units are required for graduation.

Chemistry Curriculum	Instit.	Course	Units	Grade	Term	Prerequisites, GE & comments
Lower Division Requirements (36 Units)						
Chemistry (12 units)						
CHEM 121 General Chemistry I <i>(must receive a "C" or better)</i>	4					Prereq: CHEM 105 or 1 year high school chemistry; GE: B1
CHEM 122 General Chemistry II <i>(must receive a "C" or better)</i>	4					Prereq: CHEM 121; GE: B1
CHEM 250 Quantitative Analysis	2					Prereq: CHEM 122; Coreq: CHEM 251
CHEM 251 Quantitative Analysis Laboratory	2					Prereq: CHEM 122; Coreq: CHEM 250
Biology (8 units)						
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
Math (8 units)						
MATH 150 Calculus I	4					Prereq: Passing scores on the Calculus Placement Exam or MATH 105; GE: B3
MATH 151 Calculus II	4					Prereq: MATH 150
Physics (8 units)						
PHYS 100 Introduction to Physics I OR PHYS 200 General Physics I	4					Prereq: None for PHYS 100 PHYS 200 Prereq: MATH 150; GE: B1
AND						
PHYS 101 Introduction to Physics II OR PHYS 201 General Physics II	4					PHYS 101 Prereq: PHYS 100; PHYS 201 Prereq: Prereq: PHYS 200; GE: B1
Upper Division Requirements (34 Units)						
Chemistry (24 units)						
CHEM 305 Computer Applications in Chemistry	1					Prereq: CHEM 122; GE: B4
CHEM 311 Organic Chemistry I <i>(must receive a "C" or better)</i>	3					Prereq: CHEM 122
CHEM 312 Organic Chemistry I Lab <i>(must receive a "C" or better)</i>	1					Prereq: CHEM 311 or taken concurrently
CHEM 314 Organic Chemistry II <i>(must receive a "C" or better)</i>	3					Prereq: CHEM 311
CHEM 315 Organic Chemistry II Laboratory	1					Prereq: CHEM 311, 312 and 314 or taken concurrently
CHEM 371 Physical Chemistry I	3					Prereq: CHEM 122, MATH 150; PHYS 101 or PHYS 201
CHEM 372 Physical Chemistry Lab	1					Prereq: CHEM 371 or taken concurrently
CHEM 460 Biochemistry I <i>(must receive a "C" or better)</i>	4					Prereq: CHEM 314
CHEM 461 Biochemistry II	4					Prereq: CHEM 305 or concurrent enrollment, CHEM 460. All prereqs with a grade of "C" or better
CHEM 492 Internship/Service Learning OR CHEM 494 Independent Research	2					Prereq: Consent of instructor

Chemistry, cont.		Instit.	Course	Units	Grade	Term	Prerequisites, GE & comments
CHEM 499 Chemistry Capstone Colloquium	1						Prereq: CHEM 305, CHEM 371; CHEM 492 <i>or</i> CHEM 494 or concurrent enrollment. Graded Credit/No Credit.
Biology (8 units)							
BIOL 300 Cell Biology	4						Prereq: BIOL 201 with a grade of "C" or better and CHEM 122
BIOL 400 Molecular Biology	4						Prereq: BIOL 300 or BIOL 302; All prereqs with a grade of "C" or better
Chemistry Electives (2 Units)							
Two units of Chemistry Learning Community courses (CHEM 313 and 316) may be used as electives toward the degree.							
CHEM 301 Environmental Chemistry	3						Prereq: CHEM 122
CHEM 313 Organic Chemistry I Learning Community	1						Co-requisite: CHEM 311
CHEM 316 Organic Chemistry II Learning Community	1						Co-requisite: CHEM 314
CHEM 373 Physical Chemistry II	3						Prereq: CHEM 122, MATH 150; PHYS 101 <i>or</i> PHYS 201
CHEM 410 Advanced Organic Synthesis	4						Prereq: CHEM 305 or concurrent enrollment, CHEM 314 and CHEM 315 or consent of instructor
CHEM 415 Molecular Structure Determination	4						Prereq: CHEM 305 or concurrent enrollment, CHEM 314 and CHEM 315 or consent of instructor
CHEM 450 Instrumental Analysis and Laboratory	4						Prereq: CHEM 250, CHEM 251, CHEM 305 or concurrent enrollment or consent of instructor and CHEM 315. All Prereq. with a grade of "C" or better
CHEM 465 Bioinorganic Chemistry	4						Prereq: CHEM 305 or concurrent enrollment, CHEM 314. All prereqs with a grade of "C" or better
CHEM 490 Special Topics in Chemistry	1-3						Prereq: Consent of instructor. Repeatable by topic.
CHEM 492 Internship/Service Learning	1-3						Prereq: Consent of instructor. Repeatable.
CHEM 494 Independent Research	1-3						Prereq: Consent of instructor. Repeatable.
CHEM 497 Directed Studies	1-3						Prereq: Consent of instructor. Repeatable.

Additional University Graduation Requirements

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

Course 1 (in major) _____ Course 2 (in major) _____ 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, 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: _____
