

BIOLOGY ADT TO CSU EAST BAY BIOLOGY B.A. – BIOLOGY EDUCATION CONCENTRATION

ADT BIOLOGY – 60 Sem. Units	Sem. Units	Community College Courses
CSUGE or IGETC	39	<i>CSU general education certification requires completion of all requirements in Areas A through E, approximately 39 units</i>
AREA D REQUIREMENT: US History, Constitution & American Ideals Code Requirement	3-9	US-1: US-2: US-3:
Diversity/Social Justice/Sustainability <i>Can be fulfilled in area C or D</i>	3-9	DIV: SJ: SUS:
Second Composition (Comp II) Can be fulfilled with A3 Any Composition course with ENGL 100 as a prerequisite	3	
<i>The following areas are for the CID TMC/Courses and matching Community College Courses</i>		
Major Core (C-ID)	8	Community College Courses
BIOL 190 - Cell and Molecular Biology (4)	Counted	
BIOL 140 - Organismal Biology (4)	in GE	
LIST A	22	
CHEM 120S - General Chemistry for Science Majors (10)	10	
MATH 210 - Single Variable Calculus I – Early Transcendentals (4)	4	
PHYS 105 - Physics: Algebra/Trigonometry-Based Physics A (4)	4	
PHYS 110 - Physics: Algebra/Trigonometry-Based Physics B (4)	4	
LIST B: Choose 1 course	0-4	
Any course articulated as lower division preparation in the Biology major at a CSU.		
Electives/Major Prerequisites for CSUEB	3	
GEOL 120 - Earth Science		
Total Units ADT *BIOLOGY *	60	

PLEASE NOTE: This page assumes Semester Units.

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CSUEB: BIOLOGICAL SCIENCES B.S. <i>Complete Degree in 60 Semester Units</i>	Semester UNITS	NOTES
<u>GRADUATION REQUIREMENTS</u> <i>These should be fulfilled at the Community College, however if not taken at the Community College, they must be completed at CSU East Bay</i>		
US History, Constitution & American Ideals	0-9	
1) First Category US-1	0-3	
2) Second Category US-2	0-3	
3) Third Category US-3	0-3	
These courses must be taken at CSU East Bay		
Upper Division GE <i>See catalog</i>	9	CSUEB COURSES
Please note: A minimum of three courses in the Upper Division General Education pattern must have a topic/learning outcome oriented toward one of the following topic areas (overlays): Diversity, Social Justice, or Sustainability.		
Area B6 Upper Division Science course	3	Course: OVERLAY:
Area C4 Upper Division Humanities course	3	Course: OVERLAY:
Area D4 Upper Division Social Sciences course	3	Course: OVERLAY:
Lower Division Coursework	5	
CHEM 230 – Survey of Organic Chemistry		
Upper Division Coursework	20	
BIOL 310 - Genetic Analysis I <i>Units: 4</i>		
BIOL 320 - Evolutionary Biology <i>Units: 3</i>		
BIOL 330 - General Microbiology <i>Units: 5</i>		
BIOL 350 - Ecology <i>Units: 4</i>		
BIOL 370 - Animal Physiology <i>Units: 4</i>		
Upper Division BIOL Electives	6	
See University Catalog		
Biology Education Concentration		
Teacher Education and Statistics	10	
PHIL 371 - Philosophy of Education <i>Units: 3</i>		G.E./G.R. Area: C4
SCI 308 - Hands-On Science Teaching <i>Units: 1</i>		
STAT 303 - Statistical Methods in Biology <i>Units: 3</i>		
TED 301 - Introduction to Education <i>Units: 3</i>		
Concentration Electives: Choose one	3-4	
BIOL 426 - Advanced Molecular and Cell Biology <i>Units: 3</i>		
BIOL 430 - Microbial Physiology and Metabolism <i>Units: 3</i>		
BIOL 469 - Conservation Biology <i>Units: 4</i>		
BIOL 488 - Environmental Physiology <i>Units: 3</i>		
ADDITIONAL COURSE to reach 60 Units	6-7	<i>These courses may be additional Major Courses or prerequisites not taken at the Community College</i>
<i>If needed</i>		
Total Semester Units at CSUEB	60	60

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FIRST SEMESTER JUNIOR YEAR			
APPLY for the WST BOOTCAMP And register to take the University Writing Skills Requirement			
UDGE B6	COURSE:	OVERLAY:	3
LD MAJOR	CHEM 230	SURVEY OF ORGANIC CHEMISTRY	5
UD MAJOR	BIOL 310	GENETIC ANALYSIS	4
CONCENTRATION	TED 301	INTRODUCTION TO EDUCATION	3
		TOTAL:	15
SECOND SEMESTER JUNIOR YEAR			
TAKE THE UNIVERSITY WRITING SKILLS TEST			
UDGE C4	COURSE:	OVERLAY:	3
UDGE D4	COURSE:	OVERLAY:	3
UD MAJOR ELECT	BIOL	UD MAJOR ELECT	3
CONCENTRATION	STAT 303	STATISTICAL METHODS IN BIOLOGY	3
ELECTIVE			3
		TOTAL:	152
THIRD SEMESTER SENIOR YEAR			
Verify that you have completed the University Writing Skills Requirement. Check your MyCSUEB "Degree Audit Report" (DAR) and email any discrepancies to The ADT ADVISER.			
UD MAJOR	BIOL 330	GENERAL MICROBIOLOGY	5
UD MAJOR	BIOL 320	EVOLUTIONARY BIOLOGY	3
UD MAJOR	BIOL 370	ANIMAL PHYSIOLOGY	4
CONCENTRATION	PHIL 371	PHILOSOPHY OF EDUCATION	3
		TOTAL:	15
FOURTH SEMESTER SENIOR YEAR			
See the ADT ADVISER and apply for graduation through MyCSUEB by the posted deadline, available at Important Dates			
UD MAJOR	BIOL 350	ECOLOGY	4
UD MAJOR ELECT	BIOL		3
CONCENTRATION	SCI 308	HANDS-ON SCIENCE TEACHING	1
CONCENTRATION ELECT			3-4
ELECTIVE			3-4
		TOTAL:	15
GRAND TOTAL:			60