

BIOLOGY ADT TO CSU EAST BAY BIOLOGY B.S. - ECOLOGY & EVOLUTIONARY BIOLOGY 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)	4	
BIOL 140 - Organismal Biology (4)	4	
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.		
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
GRADUATION REQUIREMENTS <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:
Upper Division Core	7	
BIOL 310 - Genetic Analysis I Units: 4	4	
BIOL 320 - Evolutionary Biology Units: 3	3	
Concentrations: 36 units		
Ecology and Evolutionary Biology Concentration		
Upper Division Coursework	25	
BIOL 350 - Ecology Units: 4	4	
BIOL 370 - Animal Physiology Units: 4	4	
BIOL 460 - Ecology and Evolutionary Biology Undergraduate Seminar Units: 2	2	
BIOL 469 - Conservation Biology Units: 4	4	
CHEM 230 - Survey of Organic Chemistry Units: 5	5	
CHEM 340 - Survey of Biochemistry Units: 3	3	
STAT 303 - Statistical Methods in Biology Units: 3	3	
Electives	11+	Choose a minimum of 11 units of electives from the following list of courses. Note: BIOL 398 Co-operative Education and/or BIOL 490 Independent Study may be used for a maximum of 3 units elective credit. Enrollment in these courses requires approval by a faculty member and the Department Chair.
BIOL 315 - Marine Biology Units: 4		
BIOL 352 - Biogeography Units: 4		
BIOL 368 - Fungi of California Units: 3		
BIOL 398 - Internship <i>Units: 1-4</i>		
BIOL 410 - Genetic Analysis II Units: 3		
BIOL 415 - PCR, Sequencing and Fragment Analysis Units: 3		
BIOL 424 - Bioinformatics Units: 3		
BIOL 444 - Medical Entomology Units: 3		

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BIOL 454 - Biology of Fungi Units: 4		
BIOL 455 - Vertebrate Biology Units: 4		
BIOL 458 - Animal Behavior Units: 4		
BIOL 466 - Population Biology Units: 4		
BIOL 468 - Molecular Ecology Units: 4		
BIOL 475 - Global Change Biology Units: 4		
BIOL 490 - Independent Study Units: 1-4		
ADDITIONAL COURSE to reach 60 Units	4	<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			
Register to take the University Writing Skills Requirement			
UDGE B6	COURSE:	OVERLAY:	3
UD CORE	BIOL 310	GENETIC ANALYSIS	4
CONCENTRATION	STAT 303	STATISTICAL METHODS IN BIOLOGY	3
CONCENTRATION	CHEM 230	SURVEY OF ORGANIC CHEMISTRY	5
		TOTAL:	15
SECOND SEMESTER JUNIOR YEAR			
TAKE THE UNIVERSITY WRITING SKILLS TEST			
UDGE D4	COURSE:	OVERLAY:	3
UD CORE	BIOL 320	EVOLUTIONARY BIOLOGY	3
CONCENTRATION	BIOL 350	ECOLOGY	4
CONCENTRATION	BIOL 370	ANIMAL PHYSIOLOGY	4
ELECTIVE			1
		TOTAL:	14
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.			
UDGE C4	COURSE:	OVERLAY:	3
CONCENTRATION	CHEM 340	SURVEY OF BIOCHEMISTRY	3
CONCENTRATION	BIOL 460	ECOLOGY & EVOLUTIONARY BIOLOGY	2
ELECTIVE	CHOOSE FROM BIOL LIST	MUST CONSIST OF 4 UNITS	4
ELECTIVE	CHOOSE FROM BIOL LIST		3
		TOTAL:	16
FOURTH SEMESTER SENIOR YEAR			
See the ADT ADVISER and apply for graduation through MyCSUEB by the posted deadline, available at Important Dates			
CONCENTRATION	BIOL 469	CONSERVATION BIOLOGY	4
ELECTIVE	CHOOSE FROM BIOL LIST	MUST CONSIST OF 4 UNITS	4
ELECTIVE	CHOOSE FROM BIOL LIST	MUST CONSIST OF 4 UNITS	4
ELECTIVE			3
		TOTAL:	15
GRAND TOTAL:			60