

BIOLOGY ADT TO CSU EAST BAY BIOLOGY B.S. - PHYSIOLOGY 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: <u>US History, Constitution & American Ideals Code Requirement</u>	3-9	US-1: US-2: US-3:
<u>Diversity/Social Justice/Sustainability</u> <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 *ADT MAJOR NAME*	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:
Upper Division Core	7	
BIOL 310 - Genetic Analysis I Units: 4		
BIOL 320 - Evolutionary Biology Units: 3		
Concentrations: 36 units		
Physiology Concentration		
Upper Division Coursework	18	
BIOL 370 - Animal Physiology Units: 4		
BIOL 488 - Environmental Physiology Units: 3		
CHEM 230 - Survey of Organic Chemistry Units: 5		
CHEM 340 - Survey of Biochemistry Units: 3		
STAT 303 - Statistical Methods in Biology Units: 3		
Electives	18	Choose 18 units of electives from the following courses. Note: BIOL 398 Co-operative Education and/or BIOL 490 Independent Study may be used for a maximum total of 3 units elective credit. Enrollment in these courses requires approval by a faculty member and the Department Chair.
BIOL 330 - General Microbiology Units: 5		
BIOL 350 - Ecology Units: 4		
BIOL 398 - Internship <i>Units: 1-4</i>		
BIOL 430 - Microbial Physiology and Metabolism Units: 3		
BIOL 440 - Molecular Virology Units: 3		
BIOL 441 - Parasitology Units: 3		
BIOL 443 - Hematology Units: 4		
BIOL 445 - Immunology Units: 3		
BIOL 470 - Animal Senses Units: 4		
BIOL 471 - Neurobiology Units: 3		
BIOL 472 - Neurobiology Laboratory Units: 4		
BIOL 473 - Comparative Physiology Units: 3		
BIOL 474 - Biomedical Physiology Units: 3		

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BIOL 475 - Global Change Biology Units: 4		
BIOL 476 - General Endocrinology Units: 3		
BIOL 490 - Independent Study Units: 1-4		
ADDITIONAL COURSE to reach 60 Units	8	<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 MAJOR	BIOL 310	GENETIC ANALYSIS I	4
CONCENTRATION	STAT 303	STATISTICAL METHODS IN BIOL	3
CONCENTRATION	CHEM 230	SURVEY OF ORGANIC CHEM	5
		TOTAL:	15
SECOND SEMESTER JUNIOR YEAR			
TAKE THE UNIVERSITY WRITING SKILLS TEST			
UDGE D4	COURSE:	OVERLAY:	3
UD MAJOR	BIOL 320	PRINCIPLES OF EVOLUTIONARY BIOL	3
UD MAJOR	BIOL 370	ANIMAL PHYSIOLOGY	4
ELECTIVE	CHOOSE FROM UD BIOL LIST		3
ELECTIVE	CHOOSE FROM UD BIOL LIST		3
		TOTAL:	16
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
UD MAJOR	BIOL 488	ENVIRONMENTAL PHYSIOLOGY	3
CONCENTRATION	CHEM 340	SURVEY OF BIOCHEMISTRY	3
ELECTIVE	CHOOSE FROM UD BIOL LIST		3
ELECTIVE	CHOOSE FROM UD BIOL LIST		2
		TOTAL:	14
FOURTH SEMESTER SENIOR YEAR			
See the ADT ADVISER and apply for graduation through MyCSUEB by the posted deadline, available at Important Dates			
ELECTIVE	CHOOSE FROM UD BIOL LIST		3
ELECTIVE	CHOOSE FROM UD BIOL LIST		3
ELECTIVE			3
ELECTIVE			3
ELECTIVE			3
		TOTAL:	15
GRAND TOTAL:			60