

BIOLOGY ADT TO CSU EAST BAY BIOLOGY B.S. - FORENSIC SCIENCE CONCENTRATION

ADT BIOLOGY B.S.– 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.		
Electives/Major Prerequisites for CSUEB	3	
AJ 140 – Criminal Investigation		
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:
Upper Division Core	7	
BIOL 310 - Genetic Analysis I Units: 4	4	
BIOL 320 - Evolutionary Biology Units: 3	3	
Concentrations: 36 units		
Forensic Science Concentration		
Upper Division Coursework	32	
BIOL 415 - PCR, Sequencing and Fragment Analysis Units: 3		
BIOL 426 - Advanced Molecular and Cell Biology Units: 3		
CHEM 220 - Quantitative Analysis Units: 4		
CHEM 320 - Bioanalytical and Forensic Instrumentation Units: 3		
CHEM 331 - Organic Chemistry I Units: 5		
CHEM 332 - Organic Chemistry II Units: 5		
CRJ 340 - Advanced Criminal Investigation Units: 3		
CRJ 350 - Criminal Identification Units: 3		
CRJ 380 - Survey of Forensic Science Units: 3		
Electives	4+	
BIOL 270 - Human Anatomy & Physiology I Units: 4 ; G.E./G.R. Area: B2, B3		
BIOL 271 - Human Anatomy & Physiology II Units: 4		
BIOL 424 - Bioinformatics Units: 3		
CHEM 441 - Biochemistry I Units: 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 CORE	BIOL 310	GENETIC ANALYSIS	4
CONCENTRATION	CHEM 220	QUANTITATIVE ANALYSIS	4
CONCENTRATION	CHEM 331	ORGANIC CHEMISTRY I	5
		TOTAL:	16
SECOND SEMESTER JUNIOR YEAR			
TAKE THE UNIVERSITY WRITING SKILLS TEST			
UDGE D4	COURSE:	OVERLAY	3
UD CORE	BIOL 320	EVOLUTIONARY BIOLOGY	3
CONCENTRATION	CHEM 332	ORGANIC CHEMISTRY II	3
ELECTIVE			3
ELECTIVE			2
		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	BIOL 415	PCR, SEQUENCING & FRAGMENT ANALYSIS	3
CONCENTRATION	CRJ 350	CRIMINAL IDENTIFICATION	3
ELECTIVE	CHOOSE FROM BIOL LIST	MUST BE 4 UNITS	4
ELECTIVE			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 426	ADVANCED MOLECULAR & CELL BIOLOGY	3
CONCENTRATION	CRJ 340	ADVANCED CRIMINAL INVESTIGATION	3
CONCENTRATION	CRJ 380	SURVEY OF FORENSIC SCIENCE	3
CONCENTRATION	CHEM 320	BIOANALYTICAL & FORENSIC INSTRUMENTATION	5
		TOTAL:	14
GRAND TOTAL:			60