B.A. in BIOLOGICAL SCIENCES (AY 2025-2026) CONCENTRATION IN BIOLOGY EDUCATION (74-75 units)

CORE COURSE REQUIREMENTS (37 units)

LOWER DIVISION BIOLOGY	UNITS	OFFERED	PREREQUISITES		
BIOL 140A Principles of Cell & Molecular Biology	5	Fall & Spring	N/A		
BIOL 140B Principles of Organismal Biology	5	Fall & Spring	BIOL 140A*		
subtotal	10				
LOWER DIVISION PHYSICAL SCIENCE & MATH	UNITS	OFFERED	PREREQUISITES		
CHEM 111 & 111L General Chemistry I (Lec & Lab)	5	Fall & Spring	MATH 120(25) or 130 (co-)		
CHEM 112 & 112L General Chemistry II (Lec & Lab)	5	Fall & Spring	CHEM 111* & 111L*		
GEOL 100 Earth System Sciences	4	Fall & Spring	N/A		
MATH 120 Precalculus (MATH 125 acceptable alt)	3	Fall & Spring	MATH 115E (C- or better)		
PHYS 115 Elementary Physics	3	Fall & Spring	N/A		
subtotal	20				
UPPER DIVISION BIOLOGY	UNITS	OFFERED	PREREQUISITES		
BIOL 310 Genetic Analysis I	4	Fall & Spring	BIOL 140B*		
BIOL 320 Evolutionary Biology	3	Fall & Spring	BIOL 310*		
subtotal	7				

CONCENTRATION COURSE REQUIREMENTS (31-32 units)

CONCENTRATION COOKSE REGULATION (31-32 units)									
UPPER DIVISION BIOLOGY	UNITS	OFFERED	PREREQUISITES						
BIOL 330 Microbiology	5	Fall	BIOL 140B*, CHEM 112 (co-)						
BIOL 350 Ecology	4	Fall & Spring	BIOL 140B*						
BIOL 370 Animal Physiology	4	Fall & Spring	BIOL 140B*, CHEM 112*						
subtotal	13								
TEACHER ED, PHYSICAL SCI, & STATISTICS	UNITS	OFFERED	PREREQUISITES						
CHEM 230 Survey of Organic Chemistry	5	Fall	CHEM 112* & 112L*						
STAT 303 Statistical Methods in Biology	3	Fall & Spring	completion of GE Area 2 or B4						
PHIL 371 Philosophy of Education	3	Fall & Spring	completion of GE Area 2 or B4						
SCI 308 Hands-On Science Teaching	1	Fall & Spring	Departmental Consent						
TED 301 Introduction to Education	3	Fall & Spring N/A							
subtotal	15								
CAPSTONE (Select 3-4 units from the list below)	UNITS	OFFERED	PREREQUISITES						
TED 302 Introduction to Teaching	3	Spring	N/A						
BIOL 426 Advanced Molecular and Cell Biology**	3	Spring	BIOL 310*						
BIOL 430 Microbial Physiology & Metabolism	3	Spring	BIOL 330*						
BIOL 469 Conservation Biology**	4	Spring	BIOL 350*						
BIOL 488 Environmental Physiology**	3	Fall	BIOL 370*						
CHEM 340 Survey of Biochemistry	3	Fall & Spring	CHEM 230* or 332*						
subtotal	3-4								

ELECTIVES (6 units)

COURSES (Choose an additional 6 units of upper division (300 & 400-level) BIOL courses as electives. BIOL 333, 334, and 335 are NOT eligible to use toward elective units.)

subtotal 6

Note: BIOL 490 Independent Study, BIOL 493 Directed Research in Biology, BIOL 498 Internship or a combination of one or two of these courses may be used for a maximum of 2 total units of elective credit.

^{*} Must pass this prerequisite course with a C- or better to move onto the next course.

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[•] Biology Education Concentration Career & Course Sub Advisor: Dr. Erica Wildy (erica.wildy@csueastbay.edu)

CONCENTRATION: Biology Education Name (Last, First):			n	Graduation Semester: Net ID:			
CORE REQU	JIREME	NTS					
				College/University Where Equivalent	Equivalent Course	TES	
Course	Grade	Semester & Year	Units	Course Was Taken	Number	Verification	
CHEM 111			3				
CHEM 111L			2				
CHEM 112			3				
CHEM 112L			2				
PHYS 115			4				
GEOL 100			4				
MATH 120			4				
BIOL 140A			5				
BIOL 140B			5				
BIOL 310			4				
BIOL 320			3				
CONCENTR	ATION F	REQUIREMENTS (#	= chose	n capstone course)			
				College/University	Equivalent		
Course	Grade	Semester & Year	Units	Where Equivalent Course Was Taken	Course Number	TES Verification	
BIOL 330			5				
BIOL 350			4				
BIOL 370			4				
CHEM 230			5				
PHIL 371			3				
SCI 308			1				
STAT 303			3				
TED 301			4				
#							
			3-4				
ELECTIVES	(At least	t 6 units of upper divi	sion ma _j				
				College/University Where Equivalent	Equivalent Course	TES	
Course	Grade	Semester & Year	Units	Course Was Taken	Number	Verification	

Total Units for Concentration: (74-75 min.) _____ Note: A C- or better required in all courses that serve as a prerequisite.

2025-2026 v1