

**Degree: Biological Sciences, B.S.: Forensic Science Concentration 22-23**

Requirement Area	Course	Course Title	Prerequisites	Units
<b>First Semester (FALL)</b>				
E	GS 101A	Foundations of Success I		1
A1	COMM 100	Communication		3
B2/LD Major	BIOL 140A	Principles of Cell and Molecular Biology		5
B4/LD Major	MATH 130	Calculus I	One from the following: Satisfactory score of 78 or higher on Mathematics Placement Exam, MATH 120 or MATH 125 (either course with grade C- or better).	4
C1				3
			<b>Total:</b>	16
<b>Second Semester (SPRING)</b>				
E	GS 101B	Foundations of Success II		1
A2	ENGL 102	College Writing (English Composition)		3
C2				3
D1/CODE 1				3
LD Major	BIOL 140B	Principles of Organismal Biology	BIOL 140A with grade C- or better.	5
			<b>Total:</b>	15
<b>Third Semester (FALL)</b>				
A3	PHIL 100	Workshop in Critical Thinking		3
B1/LD Major	CHEM 111	General Chemistry I		3
B3/LD Major	CHEM 111L	General Chemistry Lab I		2
UD Major	BIOL 310	Genetic Analysis I	BIOL 140B with a grade of C- or better.	4
UD Major	CRJ 350	Criminal Identification		3
			<b>Total:</b>	15
<b>Fourth Semester (SPRING)</b>				
Writing II/WID (2nd Comp)	ENGL 200 or PHYS 230			3
B3/LD Major	CHEM 112	General Chemistry II	CHEM 111 with grade C- or better.	5
UD Major	BIOL 320	Principles of Evolutionary Biology	BIOL 310.	3
UD Major	CRJ 380	Survey of Forensic Science		3
			<b>Total:</b>	14
<b>Fifth Semester (FALL)</b>				
F		Ethnic Studies		3
LD Major	PHYS 125	Principles of Physics I	Satisfactory score of 78 or higher on Math Proficiency Assessment or MATH 120.	4
UD Major	CHEM 331	Organic Chemistry I	CHEM 112 with grade C- or better.	5
UD Major	CRJ 340	Advanced Criminal Investigation	CRJ 220.	3
			<b>Total:</b>	15
<b>Sixth Semester (SPRING)</b>				
Code 2				3
Add'l C1 or C2*				3
LD Major	PHYS 126	Principles of Physics II	PHYS 125.	4
UD Major	CHEM 332	Organic Chemistry II	CHEM 331 with grade C- or better.	5
			<b>Total:</b>	15
<b>Seventh Semester (FALL)</b>				
E				1
D2				3
UD Major	CHEM 220	Quantitative Analysis	CHEM 112 with grade C- or better.	4
UD Major	BIOL 415	PCR, Sequencing Fragment Analysis	BIOL 310.	3
UD Major/Elective				4
			<b>Total:</b>	15
<b>Eighth Semester (SPRING)</b>				
UD-B/Overlay				3
UD-C/Overlay				3
UD-D/Overlay				3
UD Major	CHEM 320	Bioanalytical and Forensic Instrumentation	CHEM 230 or CHEM 332, both with grade C- or better.	3
UD Major/Capstone	BIOL 426	Advanced Cell and Molecular Biology	BIOL 310.	3
			<b>Total:</b>	15
<b>Total Units:</b>				120

Note: No changes to, or from, the credit/no credit pattern are permitted after the Grade Type Change period. There are no exceptions to this rule. Courses in a student's major department, regardless of course prefix, may not be taken "CR/NC," unless that is the only grading pattern in the course.

<b>CSUEB General Breadth and Graduation Requirement Checklist</b>	
<b>Area A (9 units): Communication in the English Language &amp; Critical Thinking (Must earn passing grade of C-/CR or better)</b>	
<input type="checkbox"/> A1. COMM 100 or 104, MLL 111	
<input type="checkbox"/> A2. ENGL 101, 102, or 104	
<input type="checkbox"/> A3. PHIL 100	
<b>Area B (9 units): Scientific Inquiry &amp; Quantitative Reasoning</b>	
<input type="checkbox"/> B1. Physical Science	
<input type="checkbox"/> B2. Life Science	
<input type="checkbox"/> B3. Laboratory Activity	
<input type="checkbox"/> B4. Quantitative Reasoning (Must earn passing grade of C-/CR or better.)	
<b>Area C (9 units): Arts &amp; Humanities - Minimum of three different disciplines as designated by course prefix (e.g., ART, THEA, MUS)</b>	
<input type="checkbox"/> C1. Arts	
<input type="checkbox"/> C2. Humanities	
<input type="checkbox"/> *Additional Lower-division Area C Course in Arts (C1) or Humanities (C2)	
<b>Area D (6 units): Social Sciences - Minimum of three different disciplines as designated by course prefix (e.g., ANTH, ECON, POSC)</b>	
<input type="checkbox"/> D1.	
<input type="checkbox"/> D2.	
<b>Area E (3 units): Lifelong Learning and Self-Development</b>	
<input type="checkbox"/> E.	
<b>Area F (3 units): Ethnic Studies</b>	
<input type="checkbox"/> F.	
<b>Second Composition: Requires completion of GE A2 with a C-/CR or better. Must be completed before attaining junior standing.</b>	
<input type="checkbox"/> Second Composition	
<b>U.S. Code (American Institutions Requirement) - Two courses (6 units) covering three U.S. Code Requirements of US-1 (U.S. History), US-2 (U.S. Constitution), and US-3 (California State &amp; Local Government).</b>	
<input type="checkbox"/> Code 1.	
<input type="checkbox"/> Code 2.	
<b>Upper Division GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with a C- (CR)</b>	
<input type="checkbox"/> UD-B. Upper-division Science Inquiry and Quantitative Reasoning	
<input type="checkbox"/> UD-C. Upper-division Arts OR Humanities	
<input type="checkbox"/> UD-D. Upper-division Social Sciences	
<b>Overlay Requirements (9 units): Courses may be upper or lower division, and GE or major</b>	
<input type="checkbox"/> Diversity (Div)	
<input type="checkbox"/> Social Justice (SJ)	
<input type="checkbox"/> Sustainability (S)	
<b>Elective Courses</b>	
Choose a minimum of 4 units from the following:	
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	