

Degree: Biochemistry, B.A.: Chemistry Education Concentration				
Requirement Area	Course	Course Title	Prerequisites	Units
First Semester				
E	GS 101A	Foundations of Success I		1
A1				3
B1/LD Major	CHEM 111	General Chemistry I		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
D1/CODE 1				3
			Total:	16
Second Semester				
E	GS 101B	Foundations of Success II		1
A2				3
C1				3
LD Major	MATH 131	Calculus II	MATH 130 with grade C- or better.	3
LD Major	CHEM 112	General Chemistry II	CHEM 111 with grade C- or better.	5
			Total:	15
Third Semester				
E				1
A3	PHIL 100	Workshop in Critical Thinking		3
UD Major	CHEM 331	Organic Chemistry I	CHEM 112 with grade C- or better	5
B2/LD Major	BIOL 140A	Principles of Cell and Molecular Biology		5
			Total:	14
Fourth Semester				
2nd Comp	ENGL 200 or PHYS 230			3
LD Major	BIOL 140B	Principles of Organismal Biology	BIOL 140A with grade C- or better.	5
LD Major	CHEM 220	Quantitative Analysis	CHEM 112 with grade C- or better.	4
UD Major	CHEM 332	Organic Chemistry II	CHEM 331 with grade C- or better.	5
			Total:	17
Fifth Semester				
Sustainability Overlay/LD Major	GEOL 100	Earth Systems Science		4
C2				3
UD Major	CHEM 441	Biochemistry I	CHEM 332 with grade C- or better.	4
B3/LD Major	PHYS 125	Principles of Physics I		4
			Total:	15
Sixth Semester				
UD Major	CHEM 442	Biochemistry II	CHEM 441 with grade C- or better.	4
B6/Overlay				3
LD Major	PHYS 126	Principles of Physics II	PHYS 125	4
D2				3
			Total:	14
Seventh Semester				
Code 2				3
UD Major	CHEM 443	Biochemistry Laboratory I		3
UD Major	CHEM 350	Biophysical Chemistry		3
D3				3
C3				3
			Total:	15
Eighth Semester				
UD Major	CHEM 470	Chemical Literature	CHEM 332 with grade C- or better.	1
UD Major	CHEM 425	Environmental Chemistry	CHEM 331 with grade C- or better.	4
D4/Overlay				3
C4/UD Major	PHIL 335	Philosophy of Science	Completion of GE areas A1, A2, A3 and B4.	3
UD Major	TED 301	Exploring Education		3
			Total:	14
Total Units:				120

General Education & University Requirements - Suggested Courses
Area A (9 units): Communication in the English Language & Critical Thinking (Must earn passing grade of C-/CR or better)
<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
Area B (9 units) : Scientific Inquiry & Quantitative Reasoning
<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.)
Area C (9 units): Arts & Humanities - Minimum of three different disciplines as designated by course prefix (e.g., ART, THEA, MUS)
<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)
Area D (9 units) : Social Sciences - Minimum of three different disciplines as designated by course prefix (e.g., ANTH, ECON, POSC)
<input type="checkbox"/> D1.
<input type="checkbox"/> D2.
<input type="checkbox"/> D3.
Area E (3 units) : Lifelong Learning and Self-Development
<input type="checkbox"/> E.
Second Composition : Requires completion of GE A2 with a C-/CR or better. Must be completed before attaining junior standing.
<input type="checkbox"/> Writing II.
University Writing Skills Requirement
<input type="checkbox"/> UWSR. Writing Skills Test (WST) or First and/or Second Tier Courses
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 & Local Government).
<input type="checkbox"/> Code 1.
<input type="checkbox"/> Code 2.
Upper Division GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with a C- (CR)
<input type="checkbox"/> B6. Upper-division Science Inquiry and Quantitative Reasoning
<input type="checkbox"/> C4. Upper-division Arts OR Humanities
<input type="checkbox"/> D4. Upper-division Social Sciences
Overlay Requirements (9 units): Courses may be upper or lower division, and GE or major
<input type="checkbox"/> Diversity (Div)
<input type="checkbox"/> Social Justice (SJ)
<input type="checkbox"/> Sustainability (S)