

Degree: Chemistry, B.S.				
Requirement Area	Course	Course Title	Prerequisites	Units
<b>First Semester</b>				
E	GS 101A	Foundations of Success I		1
A1				3
LD Major	CHEM 111	General Chemistry I		5
B4	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
			<b>Total:</b>	16
<b>Second Semester</b>				
E	GS 101B	Foundations of Success II		1
A2	ENGL 102			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
			<b>Total:</b>	15
<b>Third Semester</b>				
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
B1/B3	PHYS 135	Physics for Scientists and Engineers I	MATH 130.	4
LD Major	MATH 230	Calculus III	MATH 131 with grade C- or better.	3
			<b>Total:</b>	16
<b>Fourth Semester</b>				
Writing II	ENGL 200 or PHYS 230			3
LD Major	PHYS 136	Physics for Scientists and Engineers II	MATH 130 and PHYS 135.	4
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
			<b>Total:</b>	16
<b>Fifth Semester</b>				
UD Major	CHEM 351	Physical Chemistry I	CHEM 332, MATH 230, PHYS 136, all with grade C- or better.	3
C2				3
LD Major	MATH 210	Linear Algebra with Differential Equations	MATH 130.	3
LD Major	PHYS 137	Physics for Scientists and Engineers III	MATH 130 and PHYS 136.	4
			<b>Total:</b>	13
<b>Sixth Semester</b>				
UD Major	CHEM 340	Survey of Biochemistry	CHEM 230 or CHEM 332, both with grade C- or better.	3
UD Major	CHEM 352	Physical Chemistry II	CHEM 351 with grade C- or better.	3
UD Major	CHEM 355	Physical Chemistry Laboratory	CHEM 351.	2
Add'l C1 or C2*				3
D2				3
			<b>Total:</b>	14
<b>Seventh Semester</b>				
Code 2				3
UD Major	CHEM 410	Advanced Inorganic Chemistry	CHEM 332; and CHEM 350 or CHEM 351, all with grade C- or better.	4
UD Major	CHEM 420	Instrumental Analysis	CHEM 220, CHEM 332; and PHYS 126 or PHYS 136, all with grade C- or better.	3
B2				3
D3				3
			<b>Total:</b>	16
<b>Eighth Semester</b>				
UD Major		Chemistry elective		3
UD Major	CHEM 415	Inorganic Chemistry Laboratory	CHEM 410 with grade C- or better.	2
D4/Overlay			Completion of GE areas A1, A2, A3, B1 and B4.	3
C4/Overlay			Completion of GE areas A1, A2, A3, B1 and B4.	3
B6/Overlay			Completion of GE areas A1, A2, A3, B1 and B4.	3
			<b>Total:</b>	14
<b>Total Units:</b>				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	
<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)	