

BACHELOR OF SCIENCE (B.S.) DEGREE IN CHEMISTRY

A total of 120 units must be completed with at least a 2.0 grade point average in all college work attempted, all units attempted at CSUN and all upper division units in the major. Students who do not pass the Mathematics Placement Test or Chemistry Placement Test may need to take preparatory courses such as Math 102/104 (or Math 105) and Chem 100.

SUGGESTED FOUR YEAR SEQUENCE FOR CHEMISTRY B.S. MAJORS

Fall Semester	Units	Spring Semester	Units
FRESHMAN YEAR			
Chem 101 & 101L (General Chemistry)	5	Chem 102 & 102L (General Chemistry)	5
Math 150A (Math Analysis I)	5	Math 150B (Math Analysis II)	5
General Education ¹	6	Phys 225 & 220AL (Mechanics)	5
	16		15
SOPHOMORE YEAR			
Chem 321 & 321L (Chemical Analysis I)	4	Chem 422 & 422L (Chemical Analysis II)	4
Math 250 (Math Analysis III)	3	Math 280 (Applied Differential Equations)	3
Phys 226 & 220BL (Electricity & Magnetism)	5	General Education ¹	8
General Education ¹	4		15
	16		
JUNIOR YEAR			
Chem 333 & 333L/R (Principles of Organic Chemistry I)	5	Chem 334 & 334L/R (Principles of Organic Chemistry II)	5
Chem 351 (Physical Chemistry I) (Fall Only)	4	Chem 352/L (Physical Chemistry II) (Spring Only)	5
General Education ¹	8	General Education ¹	8
	17		18
SENIOR YEAR			
Chem 464 (Principles of Biochemistry)	4	Chem 401 & 401L (Inorganic Chemistry)	4
Chem 495A or 499A (Research or Independent Study)	1	Chemistry Elective	3
Chem 411 (Synthesis)	3	Free Electives ²	3
General Education ¹	8	General Education ¹	7
	16		17
¹ General Education units must include 6 units of American History and Institutions, etc. if CSUN work is used to satisfy Title V requirements. ² Students working toward a single subject major teaching credential should apportion their practice teaching between the Fall and Spring semesters.			

GENERAL EDUCATION REQUIREMENTS FOR B.S. CHEMISTRY MAJORS

The following may be used as a guide and worksheet to select courses to satisfy G.E. requirements. Consult your advisor and the G.E. section of the CSUN catalog before selecting courses. Enter your course selections in the spaces provided. Chemistry courses may not be used by chemistry majors to satisfy G.E. requirements. Science and Mathematics courses which do satisfy G.E. requirements for the Chemistry B.S. program have been inserted in the appropriate spaces below.

Nine (9) units of G.E. requirements must be upper division selected from two different sections (A through F). Title V requirements (6 units) must be satisfied in addition to these requirements.

SECTION A: BASIC SUBJECTS (12 units / 3 units minimum from each subsection)	
A-1	
A-2	
A-3	Math 150A
A-4	
SECTION D: SOCIAL SCIENCES (6 units)	
6 units from	
at least 2	
disciplines	

SECTION B: NATURAL SCIENCE (8 units)	
B-1	Physics 225/220AL & 226
B-2	
SECTION E: APPLIED ARTS AND SCIENCES (3 units)	
3 units from	
at least 2	
disciplines	

SECTION C: HUMANITIES (6 units / 3 units minimum from each subsection)	
C-1	
C-2	
C-3	
SECTION F: COMPARATIVE CULTURAL STUDIES (6 units / 3 units minimum from each subsection)	
F-1	
F-2	
F-3	