CHEMISTRY, BS, CONCENTRATION IN OCCUPATIONAL SAFETY AND HEALTH MANAGEMENT

Natural Sciences, Mathematics, and Engineering (nsme) (https://catalog.csub.edu/general-information/csub-information/school-natural-sciences-mathematics-engineering/)

Department of Chemistry and Biochemistry (https://catalog.csub.edu/general-information/csub-information/school-natural-sciences-mathematics-engineering/department-chemistry-biochemistry/)

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www.csub.edu/Chemistry (http://www.csub.edu/Chemistry/)

Program Maps for Natural Sciences, Mathematics, and Engineering (https://programmap.csub.edu/academics/interest-clusters/4e942a6e-b8e4-4b60-a1ae-334235acc581/)

Program Requirements Academic Regulations

A grade of "C" in chemistry, cognate, and all other major/minor courses is the minimal grade acceptable for progression into subsequent chemistry courses and for graduation. Students who fail to achieve at least a "C" may repeat the course. If a course is satisfactorily completed, the prior unsatisfactory grade will no longer bar a student from continuing in the Chemistry program. Credit, no-credit courses are not acceptable for the major or minor.

Code	Title	Units	
General Education Requirements			
First-Year Seminar (FYS)			
Lower Division Area A: Foundational Skills			
Lower Division Area B: Natural Sciences ¹			
Lower Division Area C: Arts and Humanities			
Lower Division Area D: Social and Behavioral Sciences		3	
Lower Division Area E: Student Enrichment and Lifelong Learning (SELF) ²		0	
Lower Division Area F. Ethnic Studies		3	
American Institutions: Government and History			
Junior Year Diversity & Reflection (JYDR)			
Graduation Writing Assessment Requirement (GWAR) 3			
Upper Division Thematic Area C and D		6	
General Education Capstone ¹			
General Education Subtotal		41	
Major Requirements			
Lower Division ⁴			

Total Units 119-		
Additional Units	Needed Towards Graduation	1-2
Major Subtotal		77
PPA 4620	Introduction to Emergency Management	3
ERM 3200	Industrial Hygiene Fundamental	3
ERM 3100	Hazardous Materials Management	3
ERM 3020	Advanced Occupational Safety and Health Management	3
ERM 3010	Introduction to Occupational Safety and Health Management	3
Concentration in	Occupational Safety and Health Management	
PHYS 2210 & PHYS 2220	Physics for Scientists and Engineers I and Physics for Scientists and Engineers II	
& PHYS 2120	and College Physics II	
	College Physics I	
Select one of the	-	8
Physics ⁷		
& MATH 2520	and Single Variable Calculus II	
& MATH 2320 MATH 2510	and Single Variable Calculus II for Engineers Single Variable Calculus I	
MATH 2310	and Calculus for Biological & Chemical Sciences I Single Variable Calculus I for Engineers	I
MATH 2010 & MATH 2020	Calculus for the Biological and Chemical Sciences	3
Select one of the	<u> </u>	8
Mathematics ⁶	4.11	
Cognates 4		
CHEM 4908	Senior Seminar in Chemistry	3
CHEM 4200	Inorganic Chemistry	3
CHEM 4101	Chemical Separations Laboratory	1
CHEM 4100	Chemical Separations	1
CHEM 3908	Seminar in Chemical Literature	3
CHEM 3610	Physical Chemistry: Quantum and Statistical Mechanics	3
CHEM 3600	Physical Chemistry Thermodynamics and Kinetics	
CHEM 3301	Organic Chemistry Laboratory I	3
CHEM 3300	Intermediate Organic Chemistry Organic Chemistry Laboratory L	3
CHEM 3110	Advanced Quantitative Chemical Analysis	3
Upper Division 4	Advanced Overstanting Objective I Amelica	^
CHEM 2900	Research Methods in Chemistry ⁵	2
CHEM 2400	Foundations of Biochemistry	2
CHEM 2300	Foundations of Organic Chemistry	3
or CHEM 2240	······	
CHEM 2200	Foundations of Inorganic Chemistry	2
CHEM 2110	Foundations of Quantitative Chemical Analysis	3
CHEM 1600	Foundations of Physical Chemistry	2
CHEM 1100	Foundations of Analytical Chemistry	2
CHEM 1001	Foundations of Chemistry Laboratory	2

Satisfied in major or cognate

² The SELF requirement is met by completing a LD Area C, or D course with a SELF component.

³ Can be satisfied by exam.

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The minimum GPA for these 75 units is 2.0
 Satisfies Area B1
 Satisfies Area B4
 Satisfies Area B1/B3