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/)

Department Chair: Sarah Forester

Office: Science Building II, 273

Phone: (661) 654-2030

Email: chemistry@csub.edu

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			
American Institutions: Government and History			
Junior Year Diversity & Reflection (JYDR)			
Graduation Writing Assessment Requirement (GWAR) 3			
Upper Division Thematic Area C and D			
General Education Capstone ¹			
General Education Subtotal			
Major Require	ements		
Lower Division ⁴			

CHEM 1000 Foundations of C	hemistry 3
CHEM 1001 Foundations of C	hemistry Laboratory 2
CHEM 1100 Foundations of A	nalytical Chemistry 2
CHEM 1600 Foundations of P	hysical Chemistry 2
CHEM 2110 Foundations of Q	uantitative Chemical Analysis 3
CHEM 2200 Foundations of In	organic Chemistry 2
or CHEM 2240 Foundations of B	ioinorganic Chemistry
CHEM 2300 Foundations of O	rganic Chemistry 3
CHEM 2400 Foundations of B	iochemistry 2
CHEM 2900 Research Method	Is in Chemistry ⁵ 2
Upper Division ⁴	
CHEM 3110 Advanced Quantit	tative Chemical Analysis 3
CHEM 3300 Intermediate Orga	anic Chemistry 3
CHEM 3301 Organic Chemistr	y Laboratory I 2
CHEM 3600 Physical Chemist	ry:Thermodynamics and Kinetics 3
CHEM 3610 Physical Chemist	ry: Quantum and Statistical 3
Mechanics	
CHEM 3908 Seminar in Chemi	ical Literature 3
CHEM 4100 Chemical Separat	tions 1
CHEM 4101 Chemical Separat	tions Laboratory 1
CHEM 4200 Inorganic Chemis	try 3
CHEM 4908 Senior Seminar in	Chemistry 3
Cognates ⁴	
Mathematics ⁶	
Select one of the following:	8
	Biological and Chemical Sciences
& MATH 2020	2.1
	Biological & Chemical Sciences II
_	alculus I for Engineers le Calculus II for Engineers
MATH 2510 Single Variable Ca	-
& MATH 2520 and Single Variable	
Physics ⁷	
Select one of the following:	8
PHYS 2110 College Physics I	•
& PHYS 2120 and College Phys	ics II
PHYS 2210 Physics for Scien	tists and Engineers I
& PHYS 2220 and Physics for S	cientists and Engineers II
Major Subtotal	62
Additional Requirements for the B.S	i. in Chemistry with a 15
Concentration in Occupational Safe	ty and Health Management
Upper Division	
ERM 3010 Introduction to Oo Management	ccupational Safety and Health 3
ERM 3020 Advanced Occupa Management	ational Safety and Health 3
ERM 3100 Hazardous Mater	ials Management 3
ERM 3200 Industrial Hygiene	e Fundamental 3
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	mergency Management 3

¹ Satisfied in major or cognate

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

- Can be satisfied by exam.
 The minimum GPA for these 75 units is 2.0
 Satisfies Area B1
 Satisfies Area B4
 Satisfies Area B1/B3