

Chemistry (B.S.) – Biochemistry & Molecular Biology Emphasis – Study Abroad

2024-2025 Academic Catalog, Bachelor of Science – Chemistry, Biochemistry and Molecular Biology Emphasis, Global Emphasis: Study Abroad

Academic Core for B.S.		50 Hours	Chemistry	57 Hours	
CHRISTIAN STUDIES		6	B.S. CHEMISTRY MAJOR REQUIRED COURSES – BIOCHEMISTRY 35		
CSBS 1311	Engaging the Old Testament	3	CHEM 1410	General Chemistry I	4
CSBS 1312	Engaging the New Testament	3	CHEM 1420	General Chemistry II	4
ENGLISH		9	CHEM 2181	Introduction to Chemical Research-Capstone I	-
ENGL 1321	Rhetoric & Composition I	3	CHEM 3400	Quantitative Analysis	4
ENGL 1322	Rhetoric & Composition II	3	CHEM 3410	Organic Chemistry I	4
ENGL	Literature	3	CHEM 3420	Organic Chemistry II	4
<i>A grade of a "C" or higher is required in ENGL 1321 and ENGL 1322.</i>			CHEM 3440	Physical Chemistry I	4
EXERCISE & SPORT SCIENCE – SELECT TWO DIFFERENT COURSES		2	CHEM 4090	Senior Evaluation	0
EXAC	Activity Course	1	CHEM 4181	Chemical Research-Capstone II	-
EXAC	Activity Course	1	CHEM 4183	Seminar - Capstone III	1
FINE ARTS – SELECT ONE		3	CHEM 4345	Advanced Biochemistry	3
ARTS 1350	Art Appreciation	3	CHEM 4430	Biochemistry	4
COMM 2335	Film Appreciation	3	CHEM	Chemistry Upper Level Electives	3-4
FINA 2330	Exploring the Fine Arts	3	<i>The hrs. for CHEM2181 and CHEM4181 are already accounted for in the Academic Core</i>		
MUSI 1340	Music Appreciation	3	REQUIRED COURSES FOR BIOCHEM & MOL BIO EMPHASIS 22		
THEA 2350	Theatre Appreciation	3	BIOL 1350	Biology for Science Majors I	3
WORLD CULTURES – SELECT ONE		3	BIOL 1150	Biology for Science Majors I Lab	1
ARTS 2354	World Art	3	BIOL 1360	Biology for Science Majors II	3
EXSS 2353	Lifespan Nutrition	3	BIOL 1160	Biology for Science Majors II Lab	1
GLBL 2310	Cultural Immersion	3	BIOL 2380	Microbiology	3
HIST 1311	History of World Civilizations to 1500	3	BIOL 2180	Microbiology Lab	1
HIST 1312	History of World Civilizations since 1500	3	BIOL 3310	Genetics	3
HUMA 2355	Foundations of the Humanities	3	BIOL 3340	Immunology	3
MUSI 2358	World Music	3	BIOL 4305	Cell Biology	3
PHIL 2315	Introduction to Philosophy	3	BIOL 4105	Cell Biology Lab	1
LAB SCIENCE		8	<i>A grade of "C" or higher is required in all Chemistry courses counting toward the major</i>		
PHYS 2411	General Physics I	4	Electives 13 Hours		
PHYS 2412	General Physics II	4	ELECTIVES 13		
PUBLIC SPEAKING		3	You need 13 additional hours to reach your minimum 120 required hrs.		
COMM 1320	Public Speaking	3	Total Hours		
MATHEMATICS		4	Academic Core for B.S. 47		
MATH 1430	Calculus I	4	Global Emphasis – Study Abroad 3		
RESEARCH METHODS OR INTERNSHIP		2	B.S. Chemistry Major Required Courses 35		
CHEM 2181	Introduction to Chemical Research-Capstone I	1	Required Courses for Biochemistry & Molecular Biology Emphasis 22		
CHEM 4181	Chemical Research-Capstone II	1	Electives 13		
SOCIAL SCIENCE – SELECT ONE		3	Total hours required for graduation 120		
BECO 2310	Principles of Economics	3	Additional Graduation Requirements		
PSYC 1301	General Psychology	3	Minimum Upper Level hours 36		
PSYC 2399	Child and Adolescent Development	3	Minimum hours taken at UMHB 30		
SOCI 1311	Introduction to Sociology	3	Minimum Upper Level hours taken at UMHB 24		
SOCW 2311	Introduction to Social Work	3	Minimum cumulative GPA 2.0		
US HISTORY OR US GOVERNMENT – SELECT ONE		3			
HIST 2311	American History to 1877	3			
HIST 2312	American History since 1877	3			
POLS 2305	United States Government	3			
POLS 2306	Texas State and Local Government	3			
FRESHMAN SEMINAR		1			
UMHB 1101	Freshman Seminar	1			
GLOBAL EMPHASIS – STUDY ABROAD		3			
	Study Abroad	3			
CHAPEL – 1 to 4 credits					
UMHB 1002	Chapel				
Fine Arts Experience – 2 to 8 credits					
UMHB 1005	Fine Arts Experience				