## Chemistry (B.S.) – Biochemistry & Molecular Biology Emphasis – Foreign Language

2022-2023 Academic Catalog, Bachelor of Science – Chemistry, Biochemistry and Molecular Biology Emphasis, Global Emphasis: Foreign Language

Academic C	Core for B.S. 46	Hours	Chemistry		
CHRISTIAN STUDIES		6	B.S. CHEMISTRY MAJOR REQUIRED COURSES - BIOCHEMISTRY		3
CSBS 1311	Engaging the Old Testament	3	CHEM 1410	General Chemistry I	
CSBS 1312	Engaging the New Testament	3	CHEM 1420	General Chemistry II	
		•	CHEM 2181	Introduction to Chemical Research-Capstone I	
ENGLISH		9	CHEM 3400	Quantitative Analysis	
ENGL 1321	Rhetoric & Composition I	3	CHEM 3410	Organic Chemistry I	
ENGL 1322	Rhetoric & Composition II	3	CHEM 3420	Organic Chemistry II	
ENGL	Literature	3	CHEM 3440	Physical Chemistry I	
A grade of a "C"	or higher is required in ENGL 1321 and ENGL 1322.		CHEM 4090	Senior Evaluation	
EXERCISE & SPO	APT SCIENCE	2	CHEM 4181	Chemical Research-Capstone II	
		2	CHEM 4183	Seminar - Capstone III  Advanced Biochemistry	
EXAC	Activity Course	1	CHEM 4345 CHEM 4430	Biochemistry	
EXAC	Activity Course	1	CHEM	Chemistry Upper Level Electives	3-
FINE ARTS — SEI	LECT ONE	3		M2181 and CHEM4181 are already accounted for in the Acade	
ARTS 1350	Art Appreciation	3	, , , , , , , , , , , , , , , , , , ,	nzioi una chizmitoi are ancaay accountea joi in the head	
	* *		REQUIRED CO	DURSES FOR BIOCHEM & MOL BIO EMPHASIS	2
COMM 2335	Film Appreciation	3	BIOL 1350	Biomolecules, Genes, and Cells	3
FINA 2330	Exploring the Fine Arts	3	BIOL 1150	Biomolecules, Genes, and Cells Lab	
MUSI 1340	Music Appreciation	3	BIOL 1360	Organisms, Populations, and Ecosystems	3
THEA 2350	Introduction to the Theatre	3	BIOL 1160	Organisms, Populations, and Ecosystems Lab	
			BIOL 2380	Microbiology	
	URES – SELECT ONE	3	BIOL 2180	Microbiology Lab	
ARTS 2354	World Art	3	BIOL 3310	Genetics	
EXSS 2353	Lifespan Nutrition	3	BIOL 3340	Immunology	
HIST 1311	History of World Civilizations to 1500	3	BIOL 4305	Cell Biology	
HIST 1312	History of World Civilizations since 1500	3	BIOL 4105	Cell Biology Lab	
MUSI 2358	World Music	3	A grade of "C" or	higher is required in all Chemistry courses counting toward th	ne ma
PHIL 2315	Introduction to Philosophy	3			
LAB SCIENCE		8	Electives	91	Houi
PHYS 2411	General Physics I	4	Total Hours		
PHYS 2412	General Physics II	4	Academic Core	of or B S	4
				sis – Foreign Language	
PUBLIC SPEAKIN	IG	3		Major Required Courses	3.
COMM 1320	Public Speaking	3		ses for Biochemistry & Molecular Biology Emphasis	2
			Electives	, , , , , , , , , , , , , , , , , , , ,	
MATHEMATICS	Calculus I	<b>3</b>	Total hours red	quired for graduation	12
MATH 1330	Calculus I	3	Additional Gra	duation Requirements	
RESEARCH MET	HODS OR INTERNSHIP	2	Minimum Upp	•	3
CHEM 2181	Introduction to Chemical Research-Capstone I	1		rs taken at UMHB	3
CHEM 4181	Chemical Research-Capstone II	1	Minimum Upp	er Level hours taken at UMHB	2
SOCIAL SCIENA	CE – SELECT ONE	3	Minimum cum	ulative GPA	2.
BECO 2310	Principles of Economics	3			
PSYC 1301	General Psychology	3			
PSYC 2399	Child and Adolescent Development	3			
SOCI 1311	Introduction to Sociology	3			
SOCW 2311	Introduction to Social Work	3			
US HISTORY O	OR US GOVERNMENT – SELECT ONE	3			
HIST 2311	American History to 1877	3			
HIST 2311	American History to 1877  American History since 1877	3			
POLS 2310	State and Federal Government I	3			
POLS 2311	State and Federal Government II	3			
FRESHMAN SEN		1			
UMHB 1101	Freshman Seminar	1			
	ASIS – FOREIGN LANGUAGE	8			
8 credit hours (2	2 semesters or the equivalent) in one language	8			
CHAPEL-1 to 4	credits				
UMHB 1002	Chapel				
Fine Arts Experie	ence – 2 to 8 credits				
UMHB 1005	Fine Arts Experience				
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