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

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

Academic Core for B.S. 55 H CHRISTIAN STUDIES		55 Hours	Chemistry	57	57 Hours	
		6	B.S. CHEMIST	RY MAJOR REQUIRED COURSES - BIOCHEMIST	RY 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	
	0 0 0		CHEM 2181	Introduction to Chemical Research-Capstone I	-	
ENGLISH		9	CHEM 3400	Quantitative Analysis	4	
ENGL 1321	Rhetoric & Composition I	3	CHEM 3410	Organic Chemistry I	4	
ENGL 1322	Rhetoric & Composition II	3	CHEM 3420	Organic Chemistry II	4	
ENGL	Literature	3	CHEM 3440	Physical Chemistry I	4	
	or higher is required in ENGL 1321 and ENGL 13		CHEM 4090	Senior Evaluation	0	
A grade of a C C	or migher is required in ENGE 1321 and ENGE 13.	22.	CHEM 4181	Chemical Research-Capstone II	-	
EXERCISE & SPO	RT SCIENCE - SELECT TWO DIFFERENT COURSE	S 2	CHEM 4183	Seminar - Capstone III	1	
EXAC	Activity Course	1	CHEM 4345	Advanced Biochemistry	3	
	·		CHEM 4430	Biochemistry	4	
EXAC	Activity Course	1	CHEM	Chemistry Upper Level Electives	3-4	
FINE ARTS - SEL	ECT ONE	3		12181 and CHEM4181 are already accounted for in the Ad		
			THE HIS. JOI CHEW	12101 and CHEW4101 are already accounted for in the Ac	uueiiiic co	
ARTS 1350	Art Appreciation	3	REQUIRED CO	OURSES FOR BIOCHEM & MOL BIO EMPHASIS	22	
COMM 2335	Film Appreciation	3	BIOL 1350	Biology for Science Majors I	3	
FINA 2330	Exploring the Fine Arts	3	BIOL 1150	Biology for Science Majors I Lab	1	
MUSI 1340	Music Appreciation	3	BIOL 1360	,	3	
	**			Biology for Science Majors II		
THEA 2350	Theatre Appreciation	3	BIOL 1160	Biology for Science Majors II Lab	1	
WORLD CHIT	IDEC CELECT ONE	2	BIOL 2380	Microbiology	3	
	JRES – SELECT ONE	<u>3</u>	BIOL 2180	Microbiology Lab	1	
ARTS 2354	World Art	3	BIOL 3310	Genetics	3	
EXSS 2353	Lifespan Nutrition	3	BIOL 3340	Immunology	3	
GLBL 2310	Cultural Immersion	3	BIOL 4305	Cell Biology	3	
HIST 1311	History of World Civilizations to 1500	3	BIOL 4105	Cell Biology Lab	1	
HIST 1312	History of World Civilizations since 1500	3	A grade of "C" or	higher is required in all Chemistry courses counting towar	d the majo	
HUMA 2355	Foundations of the Humanities	3	-		-	
MUSI 2358	World Music	3				
PHIL 2315	Introduction to Philosophy	3	Electives	8	Hours	
LAB SCIENCE		8	51 5 6 7 11 15 6		_	
	C		ELECTIVES	Pri II I I I I I I I I I I I I I I I I I	8	
PHYS 2411	General Physics I	4	You need 8 add	ditional hours to reach your minimum 120 require	a nrs.	
PHYS 2412	General Physics II	4				
DI IDI IC CDEAVINI	6	2	Total Hours			
PUBLIC SPEAKIN		3		fD C	47	
COMM 1320	Public Speaking	3	Academic Core		47	
BAATI IEBAATICE		4		is – Foreign Language	8	
MATHEMATICS		4		Major Required Courses	35	
MATH 1430	Calculus I	4		ses for Biochemistry & Molecular Biology Emphasi		
DECEADOUATE	LODE OD INITEDNICI IID	•	Electives		8	
	HODS OR INTERNSHIP	2	Total hours req	juired for graduation	120	
CHEM 2181	Introduction to Chemical Research-Capsto					
CHEM 4181	Chemical Research-Capstone II	1		duation Requirements		
			Minimum Uppe		36	
SOCIAL SCIENC	CE – SELECT ONE	3	Minimum hour	s taken at UMHB	30	
BECO 2310	Principles of Economics	3	Minimum Uppe	er Level hours taken at UMHB	24	
PSYC 1301	General Psychology	3	Minimum cum	ulative GPA	2.0	
PSYC 2399	Child and Adolescent Development	3				
SOCI 1311	Introduction to Sociology	3				
SOCW 2311	Introduction to Social Work	3				
LIC LUCTORY O	DUIS CONFEDENTALENT CELECT ONE	•				
	R US GOVERNMENT – SELECT ONE	<u>3</u>				
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	<u>1</u>				
	IASIS – FOREIGN LANGUAGE	8				
8 credit hours (2	2 semesters or the equivalent) in one langua	ge 8				
CHAPEL-1 to 4 o	credits					
UMHB 1002	Chapel	_				
Eino Arte Esmoria	nnce – 2 to 8 credits					
LIMHR 1005	ence – 2 to 8 credits Fine Arts Evnerience					

UMHB 1005 Fine Arts Experience