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

2023-2024 Academic Catalog, Bachelor of Science – Chemistry, Biochemistry and Molecular Biology Emphasis

Academic Core for B.S.

47 Hours Chemistry

57 Hours

CHRISTIAN STUE		6
CSBS 1311	Engaging the Old Testament	3
CSBS 1312	Engaging the New Testament	3
ENGLISH		9
ENGL 1321	Rhetoric & Composition I	3
ENGL 1322	Rhetoric & Composition II	Э
ENGL	Literature	3
A grade of a "C" o	or higher is required in ENGL 1321 and ENGL 1322.	
EXERCISE & SPO	RT SCIENCE – SELECT TWO DIFFERENT COURSES	2
EXAC	Activity Course	1
EXAC	Activity Course	1
FINE ARTS - SEL	ECT ONE	Э
ARTS 1350	Art Appreciation	3
COMM 2335	Film Appreciation	3
FINA 2330	Exploring the Fine Arts	3
MUSI 1340	Music Appreciation	3
THEA 2350	Introduction to the Theatre	3
I TIEA 2350	initiouuction to the mealfe	3
	JRES – SELECT ONE	3
ARTS 2354 EXSS 2353	World Art Lifespan Nutrition	3
GLBL 2310	Cultural Immersion	с Э
HIST 1311	History of World Civilizations to 1500	3
HIST 1311 HIST 1312	History of World Civilizations since 1500	3
MUSI 2358	World Music	3
PHIL 2315	Introduction to Philosophy	3
PHYS 2411	General Physics I	4
PHYS 2411 PHYS 2412		4
PH152412	General Physics II	4
PUBLIC SPEAKIN		З
COMM 1320	Public Speaking	3
MATHEMATICS		4
MATH 1430	Calculus I	4
RESEARCH METH	HODS OR INTERNSHIP	2
CHEM 2181	Introduction to Chemical Research-Capstone I	1
CHEM 4181	Chemical Research-Capstone II	1
	CE – SELECT ONE	3
BECO 2310	Principles of Economics	3
PSYC 1301	General Psychology	3
PSYC 2399	Child and Adolescent Development	3
SOCI 1311	Introduction to Sociology	E
SOCW 2311	Introduction to Social Work	3
	R US GOVERNMENT – SELECT ONE	3
HIST 2311	American History to 1877	Э
	American History since 1877	E
HIST 2312	United States Government	3
HIST 2312 POLS 2305	Texas State and Local Government	
HIST 2312 POLS 2305	Texas State and Local Government	3
HIST 2312 Pols 2305 Pols 2306 Freshman Seiv	linar	1
HIST 2312 POLS 2305 POLS 2306		-
HIST 2312 Pols 2305 Pols 2306 Freshman Seiv	IINAR Freshman Seminar	1

Fine Arts	Experier	nce−2t	o 8 crea	dits

UMHB 1005 Fine Arts Experience B.S. CHEMISTRY MAJOR REQUIRED COURSES - BIOCHEMISTRY 35 CHEM 1410 General Chemistry I 4 CHEM 1420 General Chemistry II 4 CHEM 2181 Introduction to Chemical Research-Capstone I -4 CHEM 3400 Quantitative Analysis CHEM 3410 Organic Chemistry I 4 CHEM 3420 Organic Chemistry II 4 4 CHEM 3440 Physical Chemistry I CHEM 4090 Senior Evaluation 0 CHEM 4181 Chemical Research-Capstone II _ CHEM 4183 Seminar - Capstone III 1 Advanced Biochemistry 3 CHEM 4345 CHEM 4430 4 Biochemistry CHEM Chemistry Upper Level Electives 3-4

The hrs. for CHEM2181 and CHEM4181 are already accounted for in the Academic Core

REQUIRED COL	JRSES FOR BIOCHEM & MOL BIO EMPHASIS	22
BIOL 1350	Biology for Science Majors I	3
BIOL 1150	Biology for Science Majors I Lab	1
BIOL 1360	Biology for Science Majors II	3
BIOL 1160	Biology for Science Majors II Lab	1
BIOL 2380	Microbiology	3
BIOL 2180	Microbiology Lab	1
BIOL 3310	Genetics	3
BIOL 3340	Immunology	3
BIOL 4305	Cell Biology	3
BIOL 4105	Cell Biology Lab	1
A arade of "C" or h	igher is required in all Chemistry courses counting toward th	ne major

A grade of "C" or higher is required in all Chemistry courses counting toward the major

Electives

16 Hours

ELECTIVES 16 You need 16 additional hours to reach your minimum 120 required hrs.

Total Hours

Academic Core for B.S.	47
B.S. Chemistry Major Required Courses	
Required Courses for Biochemistry & Molecular Biology Emphasis	22
Electives	16
Total hours required for graduation	
Additional Graduation Requirements	
Minimum Upper Lovel hours	

Wininfull Opper Level hours	50
Minimum hours taken at UMHB	30
Minimum Upper Level hours taken at UMHB	24
Minimum cumulative GPA	2.0