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

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

Academic Core for B.S.

50 Hours

Academic	JULE 101 D.3. 30 H	ours
CHRISTIAN STUI	DIES	6
CSBS 1311	Engaging the Old Testament	3
CSBS 1311 CSBS 1312	Engaging the New Testament	3
C3D3 1312		J
ENGLISH		9
ENGL 1321	Rhetoric & Composition I	3
ENGL 1322	Rhetoric & Composition II	3
ENGL	Literature	3
A grade of a "C"	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 - SE	LECT ONE	3
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
	JRES – SELECT ONE	3
ARTS 2354	World Art	3
EXSS 2353	Lifespan Nutrition	3
GLBL 2310	Cultural Immersion	3
HIST 1311	History of World Civilizations to 1500	3
HIST 1312 MUSI 2358	History of World Civilizations since 1500 World Music	3
PHIL 2315		3
PHIL 2010	Introduction to Philosophy	5
LAB SCIENCE		8
PHYS 2411	General Physics I	4
PHYS 2412	General Physics II	4
PUBLIC SPEAKIN	IG	3
COMM 1320	Public Speaking	3
MATHEMATICS		4
MATH 1430	Calculus I	4
RESEARCH MET	HODS OR INTERNSHIP	2
CHEM 2181	Introduction to Chemical Research-Capstone I	1
CHEM 4181	Chemical Research-Capstone II	1
SOCIAL SCIEN	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	3
SOCW 2311	Introduction to Social Work	3
US HISTORY O	R 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 SEN	/INAR	1
UMHB 1101	Freshman Seminar	1
GLOBAL EMPH	IASIS – 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

Chemistry	57 Hc	ours
B.S. CHEMIST	RY 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	-
CHEM 3400	Quantitative Analysis	4
CHEM 3410	Organic Chemistry I	4
CHEM 3420	Organic Chemistry II	4
CHEM 3440	Physical Chemistry I	4
CHEM 4090	Senior Evaluation	0
CHEM 4181	Chemical Research-Capstone II	-
CHEM 4183	Seminar - Capstone III	1
CHEM 4345	Advanced Biochemistry	3
CHEM 4430	Biochemistry	4
CHEM	Chemistry Upper Level Electives	3-4
The bre for CUEM	2101 and CUENNING and alwards accounted for in the Areada	

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

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

Electives

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13 Hours
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ELECTIVES 13 You need 13 additional hours to reach your minimum 120 required hrs.

Total Hours

Academic Core for B.S.		
Global Emphasis – Study Abroad		
B.S. Chemistry Major Required Courses		
Required Courses for Biochemistry & Molecular Biology Emphasis		
Electives	13	
Total hours required for graduation		
Additional Graduation Requirements		
Minimum Upper Level hours	36	
Minimum hours taken at UMHB	30	

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

57 Hours