## $Chemistry (B.S.) - Science \ 7-12 \ Cert. - Study \ Abroad \\ {\it 2024-2025 Academic Catalog, Bachelor of Science - Chemistry, Science 7-12 Cert., Global Emphasis: Study Abroad}$

Academic Core for B.S. 53 H		ours	Chemistry – Science 7-12 Cert		
CHRISTIAN STU	DIES	6	B.S. CHEMISTR	Y MAJOR REQUIRED COURSES	33
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
FNOUGL		•	CHEM 2181	Introduction to Chemical Research-Capstone I	
ENGLISH		<u>9</u>	CHEM 3001	Lab Assistantship	C
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
A grade of a "C"	or higher is required in ENGL 1321 and ENGL 1322.		CHEM 3440 CHEM 3450	Physical Chemistry I Physical Chemistry II	4
FXFRCISF & SPC	ORT SCIENCE - SELECT TWO DIFFERENT COURSES	2	CHEM 4090	Senior Evaluation	0
EXAC	Activity Course		CHEM 4181	Chemical Research-Capstone II	-
	,		CHEM 4183	Seminar - Capstone III	1
EXAC	Activity Course	1	CHEM 4300	Safety in the Academic Laboratory	3
FINE ARTS - SE	LECT ONE	3		181 and CHEM4181 are already accounted for in the Acad	
ARTS 1350	Art Appreciation	3	,	,	
COMM 2335		3	1-3 hours from	the following:	
	Film Appreciation		CHEM 3480	Environmental Chemistry	4
FINA 2330	Exploring the Fine Arts	3	CHEM 4350	Advanced Inorganic Chemistry	3
MUSI 1340	Music Appreciation	3	CHEM 4430	Biochemistry	4
THEA 2350	Theatre Appreciation	3	CHEM 4440	Instrumental Analysis	4
		_	CHEM 4190-4490	)	
	URES – SELECT ONE	3	CHEM 4193-4493	3	
ARTS 2354	World Art	3	A grade of "C" or hi	gher is required in all Chemistry courses counting toward	the majo
EXSS 2353	Lifespan Nutrition	3			
GLBL 2310	Cultural Immersion	3		OR REQUIRED COURSES	27
HIST 1311	History of World Civilizations to 1500	3		Biology for Science Majors I with Lab	4
HIST 1312	History of World Civilizations since 1500	3		Biology for Science Majors II with Lab	4
HUMA 2355	Foundations of the Humanities	3	BIOL 3310	Genetics	3
MUSI 2358	World Music	3	BIOL	BIOL Upper Level Elective	3
PHIL 2315	Introduction to Philosophy	3	BIOL	BIOL Elective	5
LAB SCIENCE		8	GEOL 1401	Physical Geology	4
	Caracas Dharaina I		GEOL 1402	Historical Geology	4
PHYS 2411	General Physics I	4	MINOR IN DED	ACOCY (SECONDARY LEVEL CERTIFICATION)	27
PHYS 2412	General Physics II	4	EDUC 3315	AGOGY (SECONDARY LEVEL CERTIFICATION)  Students and Learning	<b>27</b>
PUBLIC SPEAKIN	NG	3	EDUC 4324	Classroom Management	3
COMM 1320	Public Speaking	3	EDUC 4328	Curriculum Design	3
COIVIIVI 1320	rubiic speaking	3	EDUC 4385	Educational Internship	3
MATHEMATICS		4	READ 4326	Disciplinary Literacy	3
MATH 1430	Calculus I	4	EDUC 4250	Certification Preparation Seminar	2
			EDUC 4501	Student Teaching I	5
RESEARCH MET	HODS OR INTERNSHIP	2	EDUC 4502	Student Teaching II	5
CHEM 2181	Introduction to Chemical Research-Capstone I	1		_	
CHEM 4181	Chemical Research-Capstone II	1			
	'		Total Hours		
SOCIAL SCIEN	CE – SELECT ONE	3	Academic Core fo	or B.S.	50
PSYC 1301	General Psychology	3	Global Emphasis	– Study Abroad	3
PSYC 2399	Child and Adolescent Development	3	B.S. Chemistry M	ajor Required Courses	33
			Biology Minor Re	quired Courses	27
	OR US GOVERNMENT – SELECT ONE	3	Minor in Pedago	gy (Secondary Level Certification)	27
HIST 2311	American History to 1877	3	Total hours requi	ired for graduation	140
HIST 2312	American History since 1877	3			
POLS 2305	United States Government	3	Additional Gradu	ation Requirements	
POLS 2306	Texas State and Local Government	3	Minimum Upper	Level hours	36
CLASSBOOM	TECHNOLOGY	3	Minimum hours	taken at UMHB	30
	TECHNOLOGY	<b>3</b>	Minimum Upper	Level hours taken at UMHB	24
EDUC 2311	Classroom Technology	5	Minimum cumula	ative GPA	2.75
FRESHMAN SEN	∕IINAR	1			
UMHB 1101	Freshman Seminar	1			
GLOBAL EMP	HASIS – STUDY ABROAD Study Abroad	<u>3</u>			
	•	J			
UMHB 1002	<b>credits</b> Chapel				
	•				
Fine Arts Experi	ence – 2 to 8 credits				

UMHB 1005

Fine Arts Experience