Chemistry (B.S.) – Science 7-12 Cert. 2023-2024 Academic Catalog, Bachelor of Science – Chemistry, Science 7-12 Cert.

Academic Core for B.S.

50 Hours

CHRISTIAN STUD		
	DIES	
CSBS 1311	Engaging the Old Testament	
CSBS 1312	Engaging the New Testament	
0000 1012		
English		9
ENGL 1321	Rhetoric & Composition I	
ENGL 1322	Rhetoric & Composition II	3
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	:
EXAC	Activity Course	
EXAC	Activity Course	
FINE ARTS - SEL	FCT ONF	
ARTS 1350	Art Appreciation	
COMM 2335	Film Appreciation	
INA 2330	Exploring the Fine Arts	
MUSI 1340	Music Appreciation	
THEA 2350	Introduction to the Theatre	
WORLD CULTU	JRES – SELECT ONE	
ARTS 2354	World Art	
EXSS 2353	Lifespan Nutrition	
GLBL 2310	Cultural Immersion	
HIST 1311	History of World Civilizations to 1500	
HIST 1312	History of World Civilizations since 1500	
MUSI 2358	World Music	
PHIL 2315	Introduction to Philosophy	
	introduction to r missophy	
LAB SCIENCE		
PHYS 2411	General Physics I	
PHYS 2412	General Physics II	4
PUBLIC SPEAKIN	G	
COMM 1320	Public Speaking	
0011111 1020		
MATHEMATICS		
MATH 1430	Calculus I	4
RESEARCH METH	HODS OR INTERNSHIP	:
CHEM 2181	Introduction to Chemical Research-Capstone I	
CHEM 4181	Chemical Research-Capstone II	
	CE – SELECT ONE	:
JOCIAL JCILING	General Psychology	
PSYC 1301	Child and Adolescent Development	
PSYC 2399	R US GOVERNMENT – SELECT ONE	
PSYC 2399 US HISTORY O	R US GOVERNMENT – SELECT ONE American History to 1877	
PSYC 2399 US HISTORY O HIST 2311	American History to 1877	
PSYC 2399 US HISTORY O HIST 2311 HIST 2312	American History to 1877 American History since 1877	
PSYC 2399 US HISTORY O HIST 2311 HIST 2312 POLS 2305	American History to 1877 American History since 1877 United States Government	
PSYC 2399 US HISTORY O HIST 2311 HIST 2312 POLS 2305	American History to 1877 American History since 1877	
PSYC 2399 US HISTORY O HIST 2311 HIST 2312 POLS 2305 POLS 2306 CLASSROOM T	American History to 1877 American History since 1877 United States Government Texas State and Local Government ECHNOLOGY	
PSYC 2399 US HISTORY O HIST 2311 HIST 2312 POLS 2305 POLS 2306 CLASSROOM T	American History to 1877 American History since 1877 United States Government Texas State and Local Government	
PSYC 2399 US HISTORY O HIST 2311 HIST 2312 POLS 2305 POLS 2306 CLASSROOM T EDUC 2311	American History to 1877 American History since 1877 United States Government Texas State and Local Government ECHNOLOGY Classroom Technology	
PSYC 2399 US HISTORY O HIST 2311 HIST 2312 POLS 2305 POLS 2306 CLASSROOM T EDUC 2311 FRESHMAN SEM	American History to 1877 American History since 1877 United States Government Texas State and Local Government ECHNOLOGY Classroom Technology	
PSYC 2399 US HISTORY O HIST 2311 HIST 2312 POLS 2305 POLS 2306 CLASSROOM T EDUC 2311 FRESHMAN SEM UMHB 1101	American History to 1877 American History since 1877 United States Government Texas State and Local Government ECHNOLOGY Classroom Technology IINAR Freshman Seminar	
PSYC 1301 PSYC 2399 HIST 2311 HIST 2312 POLS 2305 POLS 2306 CLASSROOM T EDUC 2311 FRESHMAN SEM UMHB 1101 CHAPEL – 1 to 4 o UMHB 1002	American History to 1877 American History since 1877 United States Government Texas State and Local Government ECHNOLOGY Classroom Technology IINAR Freshman Seminar	

UMHB 1005 Fine Arts Experience

Chemistry – Science 7-12 Cert

B.S. CHEMISTR	Y MAJOR REQUIRED COURSES	33
CHEM 1410	General Chemistry I	4
CHEM 1420	General Chemistry II	4
CHEM 2181	Introduction to Chemical Research-Capstone I	-
CHEM 3001	Lab Assistantship	0
CHEM 3400	Quantitative Analysis	4
CHEM 3410	Organic Chemistry I	4
CHEM 3420	Organic Chemistry II	4
CHEM 3440	Physical Chemistry I	4
CHEM 3450	Physical Chemistry II	4
CHEM 4090	Senior Evaluation	0
CHEM 4181	Chemical Research-Capstone II	-
CHEM 4183	Seminar - Capstone III	1
CHEM 4300	Safety in the Academic Laboratory	3
The hrs. for CHEM2181 and CHEM4181 are already accounted for in the Academic Core		

1-3 hours from the following:

CHEM 3480	Environmental Chemistry	4
CHEM 4350	Advanced Inorganic Chemistry	3
CHEM 4430	Biochemistry	4
CHEM 4440	Instrumental Analysis	4
CHEM 4190-4490)	
CHEM 4193-4493		
A grade of "C" or higher is required in all Chemistry courses counting toward the major		

R REQUIRED COURSES	27
Biology for Science Majors I with Lab	4
Biology for Science Majors II with Lab	4
Genetics	3
BIOL Upper Level Elective	3
BIOL Elective	5
Physical Geology	4
Historical Geology	4
AGOGY (SECONDARY LEVEL CERTIFICATION)	27
Students and Learning	3
Classroom Management	3
Curriculum Design	3
Educational Internship	3
Disciplinary Literacy	3
Certification Preparation Seminar	2
Student Teaching I	5
Student Teaching II	5
	Biology for Science Majors II with Lab Genetics BIOL Upper Level Elective BIOL Elective Physical Geology Historical Geology AGOGY (SECONDARY LEVEL CERTIFICATION) Students and Learning Classroom Management Curriculum Design Educational Internship Disciplinary Literacy Certification Preparation Seminar Student Teaching I

Total Hours

Academic Core for B.S.	50
B.S. Chemistry Major Required Courses	33
Biology Minor Required Courses	27
Minor in Pedagogy (Secondary Level Certification)	27
Total hours required for graduation	137
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	2.75