

# Biology (B.S.) – Science 7-12 Cert. – Foreign Language

2023-2024 Academic Catalog, Bachelor of Science – Biology, Science 7-12 Certification, Global Emphasis: Foreign Language

## Academic Core for B.S.

57 Hours

### **CHRISTIAN STUDIES** **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	3
ENGL	Literature	3

A grade of a "C" or higher is required in ENGL 1321 and ENGL 1322.

### **EXERCISE & SPORT SCIENCE – SELECT TWO DIFFERENT COURSES** **2**

EXAC	Activity Course	1
EXAC	Activity Course	1

### **FINE ARTS – SELECT 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

### **WORLD CULTURES – 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	History of World Civilizations since 1500	3
MUSI 2358	World Music	3
PHIL 2315	Introduction to Philosophy	3

### **LAB SCIENCE** **8**

GEOL 1402	Historical Geology	4
PHYS 2411	General Physics I	4

### **PUBLIC SPEAKING** **3**

COMM 1320	Public Speaking	3
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### **MATHEMATICS** **3**

MATH 2303	Statistics	3
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### **RESEARCH METHODS OR INTERNSHIP** **2**

BIOL 2170	Research Methods	1
BIOL 2171	Research Methods	1

### **SOCIAL SCIENCE – SELECT ONE** **3**

PSYC 1301	General Psychology	3
PSYC 2399	Child and Adolescent Development	3

### **US HISTORY OR 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

### **CLASSROOM TECHNOLOGY** **3**

EDUC 2311	Classroom Technology	3
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### **FRESHMAN SEMINAR** **1**

UMHB 1101	Freshman Seminar	1
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### **GLOBAL EMPHASIS – FOREIGN LANGUAGE** **8**

8 credit hours (2 semesters or the equivalent) in one language 8

### **CHAPEL – 1 to 4 credits**

UMHB 1002	Chapel	
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### **Fine Arts Experience – 2 to 8 credits**

UMHB 1005	Fine Arts Experience	
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## Biology – Science 7-12 Cert.

94 Hours

### **B.S. BIOLOGY MAJOR REQUIRED COURSES** **36**

BIOL 1090	Freshman Evaluation ( <i>Freshman Only</i> )	0
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 3310	Genetics	3
BIOL 3110	Genetics Lab	1
BIOL 4090	Senior Evaluation	0
BIOL 4194	Capstone Writing	1
BIOL 4295	Capstone Seminar	2
BIOL 4370	Applied Ecology	3
BIOL 4170	Applied Ecology Lab	1

### **Biology Electives**

BIOL	Upper-level Elective with Lab	4
BIOL	Any Biology with Lab	4
BIOL	Biology Electives	5-6

### **Physiology Elective – Select one**

BIOL 2330	Foundations of Comparative Physiology	3
	or	
BIOL 2140	Human Anatomy & Physiology I Lab	1
BIOL 2340	Human Anatomy & Physiology I	3
	or	
BIOL 2180	Microbiology Lab	1
BIOL 2380	Microbiology	3

No grade lower than a "C" will count toward fulfillment of Biology major requirements.

### **Biology Required Support Courses** **7**

GEOL 1401	Physical Geology	4
MATH 1306	College Algebra	3

### **MINOR IN CHEMISTRY** **24**

CHEM 1410	General Chemistry I	4
CHEM 1420	General Chemistry II	4
CHEM 3001	Lab Assistantship	0
CHEM 3400	Quantitative Analysis	4
CHEM 3410	Organic Chemistry I	4
CHEM 3420	Organic Chemistry II	4
CHEM 4191	Seminar	1
CHEM 4300	Safety in the Academic Laboratory	3

### **MINOR IN PEDAGOGY (SECONDARY LEVEL CERTIFICATION)** **27**

EDUC 3315	Students and Learning	3
EDUC 4324	Classroom Management	3
EDUC 4328	Curriculum Design	3
EDUC 4385	Educational Internship	3
READ 4326	Disciplinary Literacy	3
EDUC 4250	Certification Preparation Seminar	2
EDUC 4501	Student Teaching I	5
EDUC 4502	Student Teaching II	5

### **Total Hours**

Academic Core for B.S.	49
Global Emphasis – Foreign Language	8
B.S. Biology Major Required Courses	36
Biology Required Support Courses	7
Minor in Chemistry	24
Minor in Pedagogy (Secondary Level Certification)	27
<b>Total hours required for graduation</b>	<b>151</b>

### **Additional Graduation Requirements**

Minimum Upper Level hours	36
Minimum hours taken at UMHB	30
Minimum Upper Level hours taken at UMHB	24
Minimum cumulative GPA	2.75