## Biology (B.S.) – Life Science 7-12 Cert. – Study Abroad

2024-2025 Academic Catalog, Bachelor of Science – Biology, Life Science 7-12 Certification, Global Emphasis: Study Abroad

Academic Core for B.S.

52 Hours

Academic C	Core for B.S.	52 Hours
CHRISTIAN STUI	DIES	6
CSBS 1311	Engaging the Old Testament	3
CSBS 1312	Engaging the New Testament	3
ENGLISH		9
ENGL 1321	Rhetoric & Composition I	3
ENGL 1321	Rhetoric & Composition II	3
ENGL	Literature	3
A grade of a "C"	or higher is required in ENGL 1321 and ENGL 1	.322.
EXERCISE & SPO	RT SCIENCE - SELECT TWO DIFFERENT COURS	SES 2
EXAC	Activity Course	1
EXAC	Activity Course	1
FINE ARTS - SEI	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	Theatre Appreciation	3
		-
ARTS 2354	URES – SELECT ONE World Art	<b>3</b> 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	
HUMA 2355 MUSI 2358	Foundations of the Humanities World Music	3
PHIL 2315	Introduction to Philosophy	3
	ind oddetion to r missophy	
LAB SCIENCE		8
CHEM 1410	General Chemistry I	4
CHEM 1420	General Chemistry II	4
PUBLIC SPEAKIN	IG	3
COMM 1320	Public Speaking	3
MATHEMATICS		3
MATH 2303	Statistics	3
RESEARCH MET	HODS OR INTERNSHIP	2
BIOL 2170	Research Methods	1
BIOL 2171	Research Methods	1
SOCIAL SCIEN	CE – SELECT ONE	3
PSYC 1301	General Psychology	3
PSYC 2399	Child and Adolescent Development	3
US HISTORY O	R US GOVERNMENT – SELECT ONE	3
HIST 2311	American History to 1877	3
HIST 2312	American History since 1877 United States Government	3
POLS 2305 POLS 2306	Texas State and Local Government	3
10152500		5
CLASSROOM 1		3
EDUC 2311	Classroom Technology	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

Fine Arts Experience

UMHB 1005

## Biology – Life Science 7-12 Cert BIOL 1350 Biology for Science Majors I BIOL 1350 Biology for Science Majors I Biology for Science Majors I Lab BIOL 1360 Biology for Science Majors II Biology for Science Majors II BIOL 1160 Biology for Science Majors II Lab

70 Hours

36

3

1

3

2.75

BIOF 1360	Biology for Science Majors II	3
BIOL 1160	Biology for Science Majors II Lab	1
BIOL 2170	Research Methods	-
BIOL 2171	Research Methods Lab	-
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	Applied Ecology Edo	T
BIOL	Upper-level Elective with Lab	4
BIOL	Any Biology with Lab	4
BIOL	Biology Electives	5-6
Physiology Electiv		0-C
BIOL 2330		3
BIOL 2550	Foundations of Comparative Physiology	3
DIOL 2140	or	1
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 that	n a "C" will count toward fulfillment of Biology major requi	rements.
		-
Biology Required		7
CHEM 3410	Organic Chemistry I	4
MATH 1306	College Algebra	3
MINOR IN PEDA	AGOGY (SECONDARY LEVEL CERTIFICATION)	27
MINOR IN PEDA EDUC 3315	AGOGY (SECONDARY LEVEL CERTIFICATION) Students and Learning	<b>27</b> 3
MINOR IN PEDA EDUC 3315 EDUC 4324	AGOGY (SECONDARY LEVEL CERTIFICATION) Students and Learning Classroom Management	<b>27</b> 3 3
MINOR IN PEDA EDUC 3315 EDUC 4324 EDUC 4328	AGOGY (SECONDARY LEVEL CERTIFICATION) Students and Learning Classroom Management Curriculum Design	<b>27</b> 3 3 3
MINOR IN PEDA EDUC 3315 EDUC 4324 EDUC 4328 EDUC 4385	AGOGY (SECONDARY LEVEL CERTIFICATION) Students and Learning Classroom Management Curriculum Design Educational Internship	<b>27</b> 3 3 3 3
MINOR IN PEDA EDUC 3315 EDUC 4324 EDUC 4328 EDUC 4385 READ 4326	AGOGY (SECONDARY LEVEL CERTIFICATION) Students and Learning Classroom Management Curriculum Design Educational Internship Disciplinary Literacy	<b>27</b> 3 3 3 3 3
MINOR IN PEDA EDUC 3315 EDUC 4324 EDUC 4328 EDUC 4328 EDUC 4385 READ 4326 EDUC 4250	AGOGY (SECONDARY LEVEL CERTIFICATION) Students and Learning Classroom Management Curriculum Design Educational Internship Disciplinary Literacy Certification Preparation Seminar	27 3 3 3 3 3 3 2
MINOR IN PEDA EDUC 3315 EDUC 4324 EDUC 4328 EDUC 4328 EDUC 4385 READ 4326 EDUC 4250 EDUC 4501	AGOGY (SECONDARY LEVEL CERTIFICATION) Students and Learning Classroom Management Curriculum Design Educational Internship Disciplinary Literacy Certification Preparation Seminar Student Teaching I	<b>27</b> 3 3 3 3 3 2 5
MINOR IN PEDA EDUC 3315 EDUC 4324 EDUC 4328 EDUC 4328 EDUC 4385 READ 4326 EDUC 4250	AGOGY (SECONDARY LEVEL CERTIFICATION) Students and Learning Classroom Management Curriculum Design Educational Internship Disciplinary Literacy Certification Preparation Seminar	27 3 3 3 3 3 3 2
MINOR IN PEDA EDUC 3315 EDUC 4324 EDUC 4328 EDUC 4328 EDUC 4385 READ 4326 EDUC 4250 EDUC 4501	AGOGY (SECONDARY LEVEL CERTIFICATION) Students and Learning Classroom Management Curriculum Design Educational Internship Disciplinary Literacy Certification Preparation Seminar Student Teaching I	<b>27</b> 3 3 3 3 3 2 5
MINOR IN PED/ EDUC 3315 EDUC 4324 EDUC 4328 EDUC 4385 READ 4326 EDUC 4250 EDUC 4501 EDUC 4502	AGOGY (SECONDARY LEVEL CERTIFICATION) Students and Learning Classroom Management Curriculum Design Educational Internship Disciplinary Literacy Certification Preparation Seminar Student Teaching I	<b>27</b> 3 3 3 3 3 2 5
MINOR IN PED/ EDUC 3315 EDUC 4324 EDUC 4328 EDUC 4385 READ 4326 EDUC 4250 EDUC 4501 EDUC 4502 Total Hours	AGOGY (SECONDARY LEVEL CERTIFICATION) Students and Learning Classroom Management Curriculum Design Educational Internship Disciplinary Literacy Certification Preparation Seminar Student Teaching I Student Teaching I	<b>27</b> 3 3 3 3 3 2 5 5 5
MINOR IN PED/ EDUC 3315 EDUC 4324 EDUC 4328 EDUC 4328 EDUC 4385 READ 4326 EDUC 4250 EDUC 4501 EDUC 4502 <b>Total Hours</b> Academic Core for	AGOGY (SECONDARY LEVEL CERTIFICATION) Students and Learning Classroom Management Curriculum Design Educational Internship Disciplinary Literacy Certification Preparation Seminar Student Teaching I Student Teaching II	<b>27</b> 3 3 3 3 2 5 5 5
MINOR IN PED/ EDUC 3315 EDUC 4324 EDUC 4328 EDUC 4328 EDUC 4385 READ 4326 EDUC 4250 EDUC 4501 EDUC 4501 EDUC 4502 <b>Total Hours</b> Academic Core fc Global Emphasis	AGOGY (SECONDARY LEVEL CERTIFICATION) Students and Learning Classroom Management Curriculum Design Educational Internship Disciplinary Literacy Certification Preparation Seminar Student Teaching I Student Teaching II or B.S. – Study Abroad	<b>27</b> 3 3 3 3 2 5 5 5 5 49 3
MINOR IN PED/ EDUC 3315 EDUC 4324 EDUC 4328 EDUC 4328 EDUC 4385 READ 4326 EDUC 4250 EDUC 4501 EDUC 4502 <b>Total Hours</b> Academic Core for Global Emphasis B.S. Biology Majo	AGOGY (SECONDARY LEVEL CERTIFICATION) Students and Learning Classroom Management Curriculum Design Educational Internship Disciplinary Literacy Certification Preparation Seminar Student Teaching I Student Teaching II or B.S. – Study Abroad r Required Courses	27 3 3 3 3 2 5 5 5 49 3 36
MINOR IN PED/ EDUC 3315 EDUC 4324 EDUC 4328 EDUC 4328 EDUC 4385 READ 4326 EDUC 4250 EDUC 4501 EDUC 4502 <b>Total Hours</b> Academic Core for Global Emphasis B.S. Biology Majo Biology Required	AGOGY (SECONDARY LEVEL CERTIFICATION) Students and Learning Classroom Management Curriculum Design Educational Internship Disciplinary Literacy Certification Preparation Seminar Student Teaching I Student Teaching II or B.S. – Study Abroad r Required Courses Support Courses	27 3 3 3 3 2 5 5 5 49 3 6 7
MINOR IN PED/ EDUC 3315 EDUC 4324 EDUC 4328 EDUC 4328 EDUC 4385 READ 4326 EDUC 4250 EDUC 4501 EDUC 4502 <b>Total Hours</b> Academic Core for Global Emphasis B.S. Biology Majo Biology Required Minor in Pedagog	AGOGY (SECONDARY LEVEL CERTIFICATION) Students and Learning Classroom Management Curriculum Design Educational Internship Disciplinary Literacy Certification Preparation Seminar Student Teaching I Student Teaching II or B.S. – Study Abroad r Required Courses Support Courses gy (Secondary Level Certification)	<b>27</b> 3 3 3 2 5 5 49 3 36 7 <u>27</u>
MINOR IN PED/ EDUC 3315 EDUC 4324 EDUC 4328 EDUC 4328 EDUC 4385 READ 4326 EDUC 4250 EDUC 4501 EDUC 4502 <b>Total Hours</b> Academic Core for Global Emphasis B.S. Biology Majo Biology Required Minor in Pedagog	AGOGY (SECONDARY LEVEL CERTIFICATION) Students and Learning Classroom Management Curriculum Design Educational Internship Disciplinary Literacy Certification Preparation Seminar Student Teaching I Student Teaching II or B.S. – Study Abroad r Required Courses Support Courses	27 3 3 3 3 2 5 5 5 49 3 6 7
MINOR IN PED/ EDUC 3315 EDUC 4324 EDUC 4328 EDUC 4328 EDUC 4385 READ 4326 EDUC 4250 EDUC 4501 EDUC 4502 <b>Total Hours</b> Academic Core fc Global Emphasis B.S. Biology Majo Biology Required Minor in Pedagog <b>Total hours requi</b>	AGOGY (SECONDARY LEVEL CERTIFICATION) Students and Learning Classroom Management Curriculum Design Educational Internship Disciplinary Literacy Certification Preparation Seminar Student Teaching I Student Teaching II or B.S Study Abroad r Required Courses Support Courses gy (Secondary Level Certification) red for graduation	<b>27</b> 3 3 3 2 5 5 49 3 36 7 <u>27</u>
MINOR IN PED/ EDUC 3315 EDUC 4324 EDUC 4328 EDUC 4328 EDUC 4385 READ 4326 EDUC 4250 EDUC 4501 EDUC 4502 <b>Total Hours</b> Academic Core for Global Emphasis B.S. Biology Majo Biology Required Minor in Pedagog <b>Total hours requi</b>	AGOGY (SECONDARY LEVEL CERTIFICATION) Students and Learning Classroom Management Curriculum Design Educational Internship Disciplinary Literacy Certification Preparation Seminar Student Teaching I Student Teaching II or B.S Study Abroad r Required Courses Support Courses gy (Secondary Level Certification) red for graduation ation Requirements	27 3 3 3 2 5 5 49 3 36 7 27 122
MINOR IN PED/ EDUC 3315 EDUC 4324 EDUC 4328 EDUC 4328 EDUC 4385 READ 4326 EDUC 4250 EDUC 4501 EDUC 4502 <b>Total Hours</b> Academic Core for Global Emphasis B.S. Biology Majo Biology Required Minor in Pedagog <b>Total hours requi</b> Additional Gradu Minimum Upper	AGOGY (SECONDARY LEVEL CERTIFICATION) Students and Learning Classroom Management Curriculum Design Educational Internship Disciplinary Literacy Certification Preparation Seminar Student Teaching I Student Teaching II or B.S Study Abroad r Required Courses Support Courses gy (Secondary Level Certification) red for graduation ation Requirements Level hours	27 3 3 3 3 2 5 5 49 3 36 7 27 122 36
MINOR IN PED/ EDUC 3315 EDUC 4324 EDUC 4328 EDUC 4328 EDUC 4385 READ 4326 EDUC 4250 EDUC 4501 EDUC 4502 <b>Total Hours</b> Academic Core fc Global Emphasis B.S. Biology Majo Biology Required Minor in Pedagog <b>Total hours requi</b> Additional Gradu Minimum Upper Minimum Upper	AGOGY (SECONDARY LEVEL CERTIFICATION) Students and Learning Classroom Management Curriculum Design Educational Internship Disciplinary Literacy Certification Preparation Seminar Student Teaching I Student Teaching I Student Teaching II or B.S Study Abroad r Required Courses Support Course S	<b>27</b> 3 3 3 3 2 5 5 49 3 36 7 <b>27</b> <b>122</b> 36 30
MINOR IN PED/ EDUC 3315 EDUC 4324 EDUC 4328 EDUC 4328 EDUC 4385 READ 4326 EDUC 4250 EDUC 4501 EDUC 4502 <b>Total Hours</b> Academic Core fc Global Emphasis B.S. Biology Majo Biology Required Minor in Pedagog <b>Total hours requi</b> Additional Gradu Minimum Upper Minimum Upper	AGOGY (SECONDARY LEVEL CERTIFICATION) Students and Learning Classroom Management Curriculum Design Educational Internship Disciplinary Literacy Certification Preparation Seminar Student Teaching I Student Teaching I Student Teaching II or B.S Study Abroad r Required Courses Support Courses Sy (Secondary Level Certification) red for graduation ation Requirements Level hours taken at UMHB Level hours taken at UMHB	27 3 3 3 3 2 5 5 49 3 36 7 27 122 36

Minimum cumulative GPA