

# Biology (B.S.) – Pre-Physician Assistant – Study Abroad

2022-2023 Academic Catalog, Bachelor of Science – Biology, Pre-Physician Assistant, Global Emphasis: Study Abroad

## Academic Core for B.S.

46 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 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
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

CHEM 1410	General Chemistry I	4
CHEM 1420	General Chemistry II	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 3

PSYC 1301	General Psychology	3
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### US HISTORY OR US GOVERNMENT – SELECT ONE 3

HIST 2311	American History to 1877	3
HIST 2312	American History since 1877	3
POLS 2310	State and Federal Government I	3
POLS 2311	State and Federal Government II	3

### FRESHMAN SEMINAR 1

UMHB 1101	Freshman Seminar	1
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### GLOBAL EMPHASIS – STUDY ABROAD 3

	Study Abroad	3
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### 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 – Pre-PA

### B.S. BIOLOGY MAJOR REQUIRED COURSES – PRE-PA 36

BIOL 1090	Freshman Evaluation ( <i>Freshman Only</i> )	0
BIOL 1350	Biomolecules, Genes, and Cells	3
BIOL 1150	Biomolecules, Genes, and Cells Lab	1
BIOL 1360	Organisms, Populations, and Ecosystems	3
BIOL 1160	Organisms, Populations, and Ecosystems 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

### Physiology Electives

BIOL 2380	Microbiology	3
BIOL 2180	Microbiology Lab	1
BIOL 2340	Human Anatomy & Physiology	3
BIOL 2140	Human Anatomy & Physiology Lab	1
BIOL 3340	Immunology	3

### Biology Electives

BIOL	Biology Upper Level with Lab	4
BIOL	Biology Electives	2

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

### REQUIRED COURSES FOR PRE-PA 24

BIOL 2341	Human Anatomy & Physiology II	3
BIOL 2141	Human Anatomy & Physiology II Lab	1
CHEM 3410	Organic Chemistry I	4
CHEM 4430	Biochemistry	4
EXSS 2355	Medical Terminology	3
MATH 1306	College Algebra	3
PSYC 2311	Developmental Psychology	3
	or	
PSYC 3315	Abnormal Psychology	3
WRIT 3344	Scientific Writing	3

### Upper Level Electives 7 Electives 4

### Total Hours

Academic Core for B.S.	46
Global Emphasis – Study Abroad	3
B.S. Biology Major Required Courses	36
Required Courses for Pre-PA	24
Upper Level Electives	7
Electives	4
<b>Total hours required for graduation</b>	<b>120</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	2.0