

Biology (B.S.) – Pre-Health Professions (Physical Therapy)

2022-2023 Academic Catalog, Bachelor of Science – Biology, Pre-Health Professions (Physical Therapy)

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 |
| PHYS 2411 | General Physics I | 4 |

PUBLIC SPEAKING 3

| | | |
|-----------|-----------------|---|
| COMM 1320 | Public Speaking | 3 |
|-----------|-----------------|---|

MATHEMATICS 3

| | | |
|-----------|------------|---|
| MATH 2303 | Statistics | 3 |
|-----------|------------|---|

RESEARCH METHODS OR INTERNSHIP 2

| | | |
|-----------|------------------|---|
| BIOL 2170 | Research Methods | 1 |
| BIOL 2171 | Research Methods | 1 |

SOCIAL SCIENCE 3

| | | |
|-----------|--------------------|---|
| PSYC 1301 | General Psychology | 3 |
|-----------|--------------------|---|

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 |
|-----------|------------------|---|

CHAPEL – 1 to 4 credits

| | | |
|-----------|--------|--|
| UMHB 1002 | Chapel | |
|-----------|--------|--|

Fine Arts Experience – 2 to 8 credits

| | | |
|-----------|----------------------|--|
| UMHB 1005 | Fine Arts Experience | |
|-----------|----------------------|--|

Biology – Pre-Health Professions

B.S. BIOLOGY MAJOR REQUIRED COURSES – PRE-HEALTH PROF. 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 2340 | Human Anatomy & Physiology I | 3 |
| BIOL 2140 | Human Anatomy & Physiology I Lab | 1 |

Biology Electives

| | | |
|-----------|-----------------------------------|---|
| BIOL 2341 | Human Anatomy & Physiology II | 3 |
| BIOL 2141 | Human Anatomy & Physiology II Lab | 1 |
| BIOL 3375 | Human Physiology | 3 |
| BIOL 3175 | Human Physiology Lab | 1 |
| BIOL | Biology Electives | 5 |

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

REQUIRED COURSES FOR PRE-PT 27

| | | |
|-----------|---------------------------|---|
| CHEM 1420 | General Chemistry II | 4 |
| CHEM 3410 | Organic Chemistry I | 4 |
| MATH 1306 | College Algebra | 3 |
| MATH 1320 | Pre Calculus | 3 |
| PHYS 2412 | General Physics II | 4 |
| PSYC 2311 | Developmental Psychology | 3 |
| | or | |
| PSYC 3315 | Abnormal Psychology | 3 |
| SOCI 1311 | Introduction to Sociology | 3 |
| WRIT 3344 | Scientific Writing | 3 |

Upper Level Electives 14*

(or as needed to reach 36 hrs. total) *

Total Hours

| | |
|-------------------------------------|------------|
| Academic Core for B.S. | 46 |
| B.S. Biology Major Required Courses | 36 |
| Required Courses for Pre-PT | 27 |
| Upper Level Electives | 14 |
| Total hours | 123 |

Additional Graduation Requirements

| | |
|---|-----|
| Minimum hours required for graduation | 120 |
| Minimum Upper Level hours | 36 |
| Minimum hours taken at UMHB | 30 |
| Minimum Upper Level hours taken at UMHB | 24 |
| Minimum cumulative GPA | 2.0 |