

# BIOMEDICAL SCIENCE / BACHELOR OF ARTS

**Total Credit Hours:** 120

**Major Credit Hours:** 60

This degree is intended for students who already hold a bachelor's degree but lack some of the prerequisite coursework required of Professional Schools and their respective entrance exams. Students should work with their academic advisor to determine which courses are necessary for the specific health profession/career interest. The usual course prerequisites apply as stipulated in the catalog. All laboratories associated with lecture courses will be required. Students must achieve a grade of "C-" or better in each of the following courses before they can advance to the next course in the sequence: BIOL 11000 General Biology 1, BIOL 11500 General Biology 2, and BIOL 22000 Genetics. Any grade less than "C-" requires the student to repeat the class or petition for an exemption. Students may receive the exemption only once. Biology majors may take a Biology class only two times. If a student has not achieved a minimum of a "C-" after the second attempt, the student may not repeat the class. Students are allowed to repeat no more than two courses in the program to satisfy the minimum grade requirement.

## Requirements

### Degree Requirements

Code	Title	Hours
<b>Core Courses</b>		
BIOL 11000	General Biology 1	4
BIOL 11100	General Biology 1 Lab	1
BIOL 11500	General Biology 2	4
BIOL 11600	General Biology 2 Lab	1
BIOL 38500	Biology Journal Club	1
BIOL 43500	Ethics: Scientific Principles and Practices	3
BIOL 49600	Biology Senior Capstone	2
<b>Electives</b>		
Select 35 credits hours from the recommended list: <sup>1</sup>		35
BIOL 22400	General Microbiology	
BIOL 22600	General Microbiology Lab	
BIOL 32000	Biostatistics	
BIOL 33500	Advanced Clinical Physiology	
BIOL 33600	Case Studies in Human Physiology	
BIOL 35500	Molecular Biochemistry with Clinical Correlates	
BIOL 35600	Molecular Biochemistry Lab	
BIOL 35700	Nutritional Biochemistry with Clinical Correlates	
BIOL 40600	Molecular Cell Biology	
BIOL 42200	Human Anatomy	
BIOL 42300	Functional Human Anatomy Lab	
BIOL 42500	Medical Microbiology	
BIOL 42600	Immunology	
BIOL 47900	Pharmacology	
CHEM 11000	General Chemistry 1	
CHEM 11100	General Chemistry 1 Lab	
CHEM 11500	General Chemistry 2	
CHEM 11600	General Chemistry 2 Lab	

CHEM 23000 Organic Chemistry I

CHEM 22100 Organic Chemistry I Lab

CHEM 23500 Organic Chemistry 2

CHEM 22600 Organic Chemistry 2 Lab

MATH 20400 Calculus for the Life Sciences

or MATH 20900 Calculus 1

PHYS 20000 College Physics 1

PHYS 20100 College Physics 1 Lab

PHYS 20500 College Physics 2

PHYS 20600 College Physics 2 Lab

### Mission Requirements

Select three courses from the following with at least one Theology: 9

PHIL 21500 Introduction to Ethics

or THEO 214 Introduction to Christian Ethics

SOCI 29000 Diversity and Social Justice

Theology Elective 10000 level

Theology Elective 20000 level

**Total Hours** 60

<sup>1</sup> Elective credits can come from any major level courses in the sciences (Biology, Chemistry, Physics) in addition to coursework in Calculus (Calculus 1, 2, and/or 3). As prerequisite coursework can vary for each health profession, no specific set of courses will be required. Students must complete at Lewis at least two courses (6-8 credits) in upper-division coursework from electives. Common courses that will most likely be part of many students' course loads include this list.

### Advanced Writing Requirement

The advanced writing requirement of the General Education curriculum is satisfied by the successful completion of:

BIOL 38500 Biology Journal Club

BIOL 49600 Biology Senior Capstone