

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
Core Courses		
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
Electives		
Select 35 credits hours from the recommended list: ¹		35
BIOL 10100	Anatomy and Physiology 1	
BIOL 10200	Anatomy and Physiology 1 Lab	
BIOL 10300	Anatomy and Physiology 2	
BIOL 10400	Anatomy and Physiology 2 Lab	
BIOL 22000	Genetics	
BIOL 22100	Genetics Lab	
BIOL 22400	General Microbiology	
BIOL 22600	General Microbiology Lab	
BIOL 32000	Biostatistics	
BIOL 35600	Molecular Biochemistry Lab	
BIOL 36200	Biochemistry	
BIOL 39000	Professional Clinical Practicum	
BIOL 40600	Molecular Cell Biology	
BIOL 42500	Medical Microbiology	
BIOL 42600	Immunology	
CHEM 11000	General Chemistry 1 and Laboratory	
CHEM 11500	General Chemistry 2 and Laboratory	
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 20500 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 21400 Introduction to Christian Ethics	
SOCI 29000 Diversity and Social Justice Theology Elective 10000 level Theology Elective 20000 level	

Total Hours 60

¹ Elective credits can come from any major level courses in the sciences (Biology, Chemistry, Physics) or Calculus 1/Calculus for the Life Sciences (or a higher level Calculus course). 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