

# Biology



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Biology is the scientific study of life.

The associate of science (AS) with a concentration in biology at Lee College is designed for students who plan to transfer to a four-year college or university with the goal of completing a bachelor's degree in biology or related field.

The AS biology area of concentration fulfills most prerequisites for entry to many professional programs, including BS nursing, physician's assistant, clinical laboratory science, dental hygiene, and pharmacy programs. In some fields, an AS with a concentration in biology will prepare you for entry level technical or assistant positions.

**Many careers require education beyond the associate degree. Students should work with their advisor to tailor course selections to align with their chosen transfer university. The transfer plan(s) on this page shows a tailored example for a university commonly chosen by Lee College students. However, students may choose to continue their education at any university.**

## What Will I Learn?

Students will develop laboratory skills and gain a basic scientific understanding of life from the smallest microscopic organisms to the human body and entire ecosystems. Students will also learn critical thinking and problem-solving skills appropriate for a profession in biology.

## What Can I Do with This Course of Study?

An Associate of Science will prepare you for entry-level technical or assistant positions in education and analytical laboratories. It is also the first step toward transfer and a Bachelor of Science or advanced degree in biology. Possible careers fields include medical, biotech, pharmaceutical, natural resource conservation, agricultural sciences, education, and many more.

## Biology UHCL Transfer Plan

Please note that MATH 1314 & MATH 2412 are pre-requisites for MATH 2413. This plan includes course options for transferring into the BIOLOGICAL SCIENCE BS program at the University of Houston-Clear Lake. The plan includes more than the 60 hours required for an Associate of Science and allows students to complete both an Associate of Arts and an Associate of Science prior to transfer.

**Foundations: These are the courses students need in order to progress in their career/college pathway, as they either provide a certificate or lay the groundwork for moving to the next set of courses.**

Lee College		UHCL
Course	Course Title	Counts Toward
EDUC 1200	Learning Frameworks	PSYC 1100
ENGL 1301	English Composition 1	WRIT 1301
BIOL 1406	General Biology 1; Lecture and lab	BIOL 1106/1306
CHEM 1411	General Chemistry 1; Lecture and lab	CHEM 1111/ 1311
ARTS 1303 or 04	Art History 1 OR Art History 2	ARTS 1303 or 1304
SPCH 1315	Principles of Public Speaking	COMM 1315

**Knowledge Building: These courses further the students' knowledge in the area of study and increase their preparation for the degree completion.**

Lee College		UHCL
Course	Course Title	Counts Toward
MATH 2413	Calculus 1	MATH 2413
BIOL 1407	General Biology 2; Lecture and lab	BIOL 1107/1307
CHEM 1412	General Chemistry 2; Lecture and lab	CHEM 1112/1312
ENGL 1302	English Composition 2	WRIT 1302
HIST 1301	History of the United States to 1877	HIST 1301
GOVT 2305	Federal Government	POLS 2305
PHYS 1401	College Physics 1; Lecture and lab	PHYS 1101/1301

**Completion: These are the courses the student needs in order to complete the degree plan and prepare to enter the workforce.**

	<b>Lee College</b>	<b>UHCL</b>
<b>Course</b>	<b>Course Title</b>	<b>Counts Toward</b>
HIST 1302	History of the United States since 1877	HIST 1302
GOVT 2306	Texas Government	POLS 2306
CHEM 2423	Organic Chemistry 1; Lecture and lab	CHEM 2123/2323
HUMA 1301	Introduction to Humanities 1	HUMA 1301
BIOL 2421	Microbiology	BIOL 2121/2321
PSYC 2301 or SOCI 1301	Introduction to Psychology or Introduction to Sociology	PSYC 2301 or SOCI 1301
PHYS 1402	College Physics 2; Lecture and lab	PHYS 1102/1302

## **University of Texas Medical Branch-Galveston 2+2 Clinical Laboratory Science Program**

Clinical Laboratory Science (CLS) is a critical field in health professions that provides the science-based testing necessary for diagnosis and treatment of human disease. CLS is an ideal career for students that are passionate about science and health care, but would prefer to work behind the scenes rather than in direct patient care.

The UTMB-Galveston Clinical Laboratory Science Program offers a Bachelor of Science in Clinical Laboratory Science 2+2 track that accepts prerequisites from all public and private institutions. Students can complete all of the required 60 hours of prerequisites for the B.S. in CLS program at Lee College prior to matriculation. Students can also apply as early as September 1st of each calendar year for the following years class that starts in late August. Students may also apply after completing 30 of the 60 prerequisite hours. Students are encouraged to apply to the CLS program early.

The following Lee College Courses and course options satisfy the 60 prerequisite hours.

<b>Subject and Course Number</b>	<b>Course Title</b>	<b>Credit Hours</b>
ENGL 1301	English Composition 1	3
ENGL 1302	English Composition 2	3
SPCH 1315 or ENGL 2311	Principles of Public Speaking or Technical Writing	3
HIST 1301	History of the United States to 1877	3
HIST 1302	History of the United States since 1877	3
GOVT 2305	Federal Government	3

GOVT 2306	Texas Government	3
BIOL 1406	General Biology 1	4
<sup>1</sup> BIOL 1407	General Biology 2	4
BIOL 2421	Microbiology	4
<sup>1</sup> BIOL 2401	Human Anatomy & Physiology I	4
BIOL 2402	Human Anatomy & Physiology II	4
CHEM 1411	General Chemistry 1	4
CHEM 1412	General Chemistry 2	4
<sup>2</sup> MATH 1314	College Algebra	3
Choose from any, PSYC or SOCI	Social/Behavioral Sciences	3
Choose from any HUMA	Humanities	3
Choose from any ARCH, ARTS, DRAM, or MUSI	Visual or Performing Arts	3

Biology and Chemistry courses must be for science majors and include laboratories.

<sup>1</sup>BIOL 1407 and BIOL 2401 are recommended to satisfy Biological Science and Science Electives coursework. <sup>2</sup>The mathematics prerequisite is satisfied by college algebra of higher. Overall GPA must be 2.0 or higher with all prerequisite courses having a passing grade of C or higher.

For more information, contact the Department of Clinical Laboratory Sciences, 301 University Blvd., Galveston, TX 77555-1140 • 409.772.3055, [clsadmin@utmb.edu](mailto:clsadmin@utmb.edu)

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