

# Chemistry



Chemistry is the study of matter and the changes it undergoes. Chemistry is called the central science because a basic knowledge of chemistry is essential in many scientific fields, including biology, physics, geology, engineering, and material science.

The Lee College chemistry program has the goal of providing training and knowledge in fundamental chemistry principles, critical thinking using those fundamentals, analytical chemistry techniques, and a thorough knowledge of organic chemistry fundamentals.

Because of its central role in science, many students take chemistry courses as part of another degree plan. The courses are designed to give students the basic language of chemistry to help them succeed in future course work.

**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 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?

An associate of science in chemistry from Lee College is a great first step toward a bachelor of science in a related field. Graduates of the program are qualified to work in entry-level chemistry professions or use it to supplement their current career in industry. Students will gain a basic understanding and appreciation of nature, critical thinking, and problem-solving appropriate for a profession in chemistry and related

disciplines. Entry prerequisites for this degree program are MATH 1314 or equivalent, and MATH 2412 or equivalent.

[View Program Learning Outcomes](#)

## "What Can I Do With This Course of Study?"

An AS in chemistry can lead to a variety of different careers, such as:

- Medical lab technician
- Laboratory assistant
- Quality lab technician
- Clinical laboratory technologist

A BS in chemistry can lead to a variety of different careers, such as:

- Teacher
- Chemist
- Research specialist

A graduate degree in chemistry can lead to a variety of different careers, such as:

- Professor
- Senior chemist
- Lab manager

## Chemistry 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 Chemistry BS program at the University of Houston - Clear Lake.

**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
MATH 2413	Calculus 1	MATH 2413
CHEM 1411	General Chemistry 1; Lecture and lab	CHEM 1111/1311
PSYC 2301 or SOCI 1301	Introduction to Psychology or Introductory Sociology	PSYC 2301 or SOCI 1301
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
ENGL 1302	English Composition 2	WRIT 1302
MATH 2414	Calculus 2	MATH 2414
CHEM 1412	General Chemistry 2; Lecture and lab	CHEM 1112/1312
PHYS 2425	University Physics 1; Lecture and lab	PHYS 2125/2325
ARTS 1303 OR 04	Art History 1 OR Art History 2	ARTS 1303 OR 1304
HIST 1301	History of the United States to 1877	HIST 1301
GOVT 2305	Federal Government	POLS 2305

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

Lee College		UHCL
Course	Course Title	Counts Toward
CHEM 2423	Organic Chemistry 1; Lecture and lab	CHEM 2123/2323
PHYS 2426	University Physics 2; Lecture and lab	PHYS 2126/2326
HIST 1302	History of the United States since 1877	HIST 1302
GOVT 2306	Texas Government	POLS 2306
HUMA 1301	Introduction to Humanities	HUMN 1301

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