

Chemistry, BA

LACHMBA

Do you want to help tackle current societal challenges related to energy, environment, medicine and new materials? Explore hands-on laboratory experiences that unlock the power of atomic and molecular solutions while cultivating vital critical thinking and problem-solving skills for diverse career paths.

Program description

Students in the BA program in chemistry develop a well-rounded understanding of atomic and molecular-level science, with applications spanning energy and sustainability, new materials, medicine, nanoscience, environmental science, forensics, cosmetics, food chemistry, patent law, sales and marketing. They gain a solid foundation in physical science within a liberal arts context.


The curriculum encompasses a diverse range of coursework, including lectures and laboratory sessions, enabling students to apply atomic and molecular-level thinking to applicable problems. The program fosters critical thinking skills, problem-solving abilities and interdisciplinary competence.

While research is not the primary focus of this program, students may have opportunities to engage in laboratory research or projects. The program offers flexibility for students to explore various interests, including laboratory science, regulation or law in the public sector.

In addition to the guidelines in the Concurrent Program Options section below, students interested in pursuing concurrent or second baccalaureate degrees in The College of Liberal Arts and Sciences are advised to visit [The College's website](#) for more information and requirements.

At a glance

- **College/School:** [The College of Liberal Arts and Sciences](#)
- **Location:** [Tempe](#) or [Online](#), [ASU Local](#)
- **Second language requirement:** Yes

- **First required math course:** MAT 270 - Calculus w/Analytic Geometry I or MAT 265 Calculus for Engineers
- **Math intensity:** Substantial 

Required courses (Major Map)

[2024 - 2025 Major Map \(on-campus\)](#)

[2024 - 2025 Major Map \(online\)](#)

[Major Map \(Archives\)](#)

Concurrent program options

Students pursuing concurrent degrees (also known as a "double major") earn two distinct degrees and receive two diplomas. Working with their academic advisors, students can create their own concurrent degree combination. Some combinations are not possible due to high levels of overlap in curriculum.

Admission requirements

General university admission requirements:

All students are required to meet general university admission requirements.

[First-year](#) | [Transfer](#) | [International](#) | [Readmission](#)

Tuition information

When it comes to paying for higher education, everyone's situation is different. Students can learn about [ASU tuition and financial aid](#) options to find out which will work best for them.

Change of Major Requirements

A current ASU student has no additional requirements for changing majors.

Students should visit the [Change of Major form](#) for information about how to change a major to this program.

Attend online

ASU Online

ASU offers this program in an online format with multiple enrollment sessions throughout the year. Applicants may [view the program's ASU Online page](#) for program descriptions and to request more information.

ASU Local

It is now possible to earn an ASU degree with [ASU Local](#), an integrated college experience in which students take advantage of in-person success coaching and programming experiences on site while completing one of 130+ undergraduate online degree programs, all of which come with online faculty interaction and tutoring support.

Transfer options

ASU is committed to helping students thrive by offering tools that allow personalization of the transfer path to ASU. Students may use [MyPath2ASU®](#) to outline a list of recommended courses to take prior to transfer.

ASU has [transfer partnerships](#) in Arizona and across the country to create a simplified transfer experience for students. These pathway programs include exclusive benefits, tools and resources, and they help students save time and money in their college journey.

Global opportunities

Global experience

When [studying abroad](#), chemistry students can gain valuable experience in a diverse set of programs. Students earn ASU credit for completed courses, while staying on track for graduation. Students who study abroad acquire heightened skills in communication, critical thinking and leadership.

Career opportunities

A degree in chemistry provides the background for careers in chemical and electronics industries, in national research labs, environmental labs and forensic labs. Chemistry can be combined with law for patent work, with economics for sales and marketing careers, and with computer science for careers in information technology. Students with a strong liberal arts background are also prepared for careers in scientific sales, marketing, human development and training. Students often take chemistry degree programs to be competitive applicants for admission to medical, dental or pharmacy schools.

Example job titles and salaries listed below are not necessarily entry level, and students should take into consideration how years of experience and geographical location may affect pay scales. Some jobs also may require advanced degrees, certifications or state-specific licensure.

Career	*Growth	*Median salary
Chemical Technician	3.2%	\$50,840
Chemist ☀	6.2%	\$80,670
Crime Scene Investigator ☀	12.6%	\$63,740

<u>High School Teacher</u>	1.0%	\$62,360
<u>Hydrogeologist</u> ☀	4.8%	\$144,440
<u>Materials Scientist</u> ☀	5.1%	\$104,380
<u>Medical Doctor (MD)</u>	2.5%	\$214,460
<u>Pharmacist</u>	2.6%	\$132,750
<u>Soil Scientist</u> ☀	4.7%	\$65,730
<u>Water/Wastewater Engineer</u> ☀	5.0%	\$89,940

* Data obtained from the Occupational Information Network (O*NET) under sponsorship of the U.S. Department of Labor/Employment and Training Administration (USDOL/ETA).

☀ Bright Outlook

Contact information

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