Chemistry, BS

Chemists study the nature of materials to solve important societal problems at the atomic and molecular levels. You will learn the skills you need to help find solutions related to medicine, energy, electronics and technology, and air quality. These skills can aid you in any of a vast assortment of careers.

Program Description

In the BS program in chemistry, students take courses that give them the knowledge and skills that enable them to solve problems in areas as diverse as energy and sustainability, new materials for technology, medicine and health, nanoscience, environmental science, forensics, cosmetics and food chemistry at the molecular level.

The Bachelor of Science degree in chemistry prepares students for advanced study of chemistry and material science in competitive graduate degree programs.

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.

https://thecollege.asu.edu/concurrent-and-second-baccalaureate-degrees

At a Glance

- **College/School:** The College of Liberal Arts and Sciences
- **Location:** Tempe campus
- **Additional Program Fee:** Yes
- **Second Language Requirement:** No
• **First Required Math Course:** MAT 270 - Calculus w/Analytic Geometry I or MAT 265 Calculus for Engineers
• **Math Intensity:** Substantial

## Required Courses (Major Map)

2022 - 2023 Major Map
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.

## Accelerated Program Options

This program allows students to obtain both a bachelor's and master's degree in as little as five years. It is offered as an accelerated bachelor's and master's degree with:

- Biochemistry (Medicinal Chemistry), MS
- Materials Science and Engineering, MS
- Nanoscience, PSM

Acceptance to the graduate program requires a separate application. During their junior year, eligible students are advised by their academic departments to apply.

## Admission Requirements

General University Admission Requirements:
All students are required to meet general university admission requirements. 
[Freshman](https://admission.asu.edu/freshman) | [Transfer](https://admission.asu.edu/transfer) | [International](https://admission.asu.edu/international) | [Readmission](https://admission.asu.edu/readmission)

## Change of Major Requirements

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

Students should refer to [https://changemajor.apps.asu.edu](https://changemajor.apps.asu.edu) for information about how to change a major to this program.

## 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. Students may learn more about these programs by visiting the admission site: https://admission.asu.edu/transfer/MyPath2ASU.

Global Opportunities

Global Experience
When studying abroad, chemistry students can gain valuable experience in a diverse set of programs, and they acquire heightened skills in communication, critical thinking and leadership which enable them to stand out competitively in their chosen field. Students earn ASU credit for completed courses, while staying on track for graduation. https://goglobal.asu.edu/

Career Opportunities

A degree in chemistry provides the background for careers in chemical and electronics industries, in national research 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 often take BS chemistry degree programs to be competitive applicants for admission to medical, dental or pharmacy schools.

Chemists do research in laboratories; they study the environment; they work in manufacturing, sales and marketing; they work in the public sector deciding policy and regulation; and they teach.

Career examples include but are not limited to those shown in the following list. Advanced degrees or certifications may be required for academic or clinical positions.

<table>
<thead>
<tr>
<th>Career</th>
<th>*Growth</th>
<th>*Median Salary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Plant and System Operator</td>
<td>2.8%</td>
<td>$65,960</td>
</tr>
<tr>
<td>Chemical Technician</td>
<td>4.7%</td>
<td>$49,820</td>
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<tr>
<td>Chemist</td>
<td>4.3%</td>
<td>$79,300</td>
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<tr>
<td>Chemistry Professor</td>
<td>7.8%</td>
<td>$80,400</td>
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<tr>
<td>Climate Change Analyst</td>
<td>14.1%</td>
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<tr>
<td>Crime Scene Investigator</td>
<td>3.8%</td>
<td>$62,870</td>
</tr>
<tr>
<td>Occupation</td>
<td>Change</td>
<td>Salary</td>
</tr>
<tr>
<td>---------------------</td>
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</tr>
<tr>
<td>Hydrogeologist</td>
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<tr>
<td>Materials Scientist</td>
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<tr>
<td>Pharmacist</td>
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<td>$128,710</td>
</tr>
</tbody>
</table>

* 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  🌿 Green Occupation

**Contact Information**

School of Molecular Sciences | PSD 104  
SMSadvising@asu.edu | 480-965-7667