Chemistry, BS

Chemists do more than just laboratory-based research. A chemistry degree teaches you to solve problems at the molecular level in areas such as environmental science, medicine, materials and energy. You will learn to think critically and interdisciplinarily, and you will be prepared for numerous scientific careers or graduate school.

Program Description

Chemistry is concerned with the composition, properties and reactions of matter. The BS program in chemistry provides students the knowledge and skills necessary to address contemporary scientific challenges in transdisciplinary areas such as energy and sustainability, medicine and health, materials and nanoscience, geologic and biospheric science, frontiers of chemical measurement, and fundamental molecular science.

Students complete coursework in the foundational chemistry disciplines of analytical, inorganic, organic and physical chemistry as well as biochemistry as part of a curriculum approved by the American Chemical Society. This degree is appropriate for further study of chemistry or other physical sciences in graduate school or for scientific careers.

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
- **Math Intensity:** Substantial
Required Courses (Major Map)

2019 - 2020 Major Map
Major Map (Archives)

Accelerated Degrees

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
- Nanoscience, PSM

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

Admission Requirements

General University Admission Requirements:

All students are required to meet general university admission requirements.
Freshman | Transfer | International | Readmission

Change of Major Requirements

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

Students should refer to https://changingmajors.asu.edu/request for information about how to change a major to this program.

Transfer Options

ASU is committed to helping you thrive by offering tools that allow you to personalize your transfer path to ASU. Students may use the Transfer Map search 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 help students save time and money in their college journey. Learn more about these programs by visiting the Admissions site.

Global Opportunities

PLuS Alliance
Global Experience

With over 250 programs in more than 65 countries (ranging from one week to one year), study abroad is possible for all ASU students wishing to gain global skills and knowledge in preparation for a 21st-century career. Students earn ASU credit for completed courses, while staying on track for graduation, and may apply financial aid and scholarships toward program costs. https://mystudyabroad.asu.edu/

Global Degree

Career Opportunities

A solid undergraduate program of education in chemistry provides the necessary background for many career paths in chemical industries, government and other areas. Chemistry can be combined with law for patent work, economics for sales and marketing careers, and computer science for careers in information storage and retrieval. Students planning careers in medicine, dentistry or veterinary medicine often pursue a course of study in chemistry with supporting work in biology as the route for preprofessional training.

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></td>
<td>$62,170</td>
</tr>
<tr>
<td>Chemical Technician</td>
<td>4.0%</td>
<td>$47,280</td>
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<tr>
<td>Chemist</td>
<td>6.5%</td>
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<td>Chemistry Professor</td>
<td>9.9%</td>
<td>$77,190</td>
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<tr>
<td>Climate Change Analyst</td>
<td>11.1%</td>
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<td>Crime Scene Investigator</td>
<td>16.8%</td>
<td>$57,850</td>
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<tr>
<td>High School Teacher</td>
<td>7.5%</td>
<td>$59,170</td>
</tr>
<tr>
<td>Occupation</td>
<td>Change Rate</td>
<td>Average Salary</td>
</tr>
<tr>
<td>--------------------</td>
<td>-------------</td>
<td>----------------</td>
</tr>
<tr>
<td>Hydrogeologist</td>
<td>9.9%</td>
<td>$118,970</td>
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<tr>
<td>Materials Scientist</td>
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</tr>
<tr>
<td>Pharmacist</td>
<td>5.6%</td>
<td>$124,170</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**

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