Chemistry, BA

Are you dedicated to solving problems in environmental science, medicine, materials and energy? Learn how to address these challenges and others with molecular tools as you gain rigorous scientific training within the structure of a liberal arts degree.

Program Description

Chemistry is concerned with the composition, properties and reactions of matter. The BA program in chemistry provides the fundamental knowledge and skills necessary to address scientific needs of society 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.

The Bachelor of Arts degree in chemistry is a flexible option for students interested in a liberal arts degree with a strong grounding in physical science. It is ideal for students seeking to complete two degrees. Students pursuing a bachelor's degree in chemistry have opportunities to explore interests in analytical, inorganic, organic and physical chemistry as well as biochemistry, geochemistry, solid-state and materials chemistry. Students wishing to pursue a scientific graduate degree should consider the BS in chemistry.

At a Glance

- **College/School:** The College of Liberal Arts and Sciences
- **Location:** Tempe campus
- **Additional Program Fee:** Yes
- **Second Language Requirement:** Yes
- **First Required Math Course:** MAT 270 - Calculus w/Analytic Geometry I
- **Math Intensity:** Substantial

Required Courses (Major Map)
Concurrent Program Options

This degree is also offered as concurrent degree program with:

Secondary Education, BAE

Admission Requirements

General University Admission Requirements:

All students are required to meet general university admission requirements.

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 students thrive by offering tools that allow personalization of the 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. Students may learn more about these programs by visiting the admission site: https://admission.asu.edu/transfer/pathway-programs.

Global Opportunities

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/](https://mystudyabroad.asu.edu/)

**Career Opportunities**

A solid undergraduate 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, with economics for sales and marketing careers, and with 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 Technician</td>
<td>4.0%</td>
<td>$47,280</td>
</tr>
<tr>
<td>Chemist</td>
<td>6.5%</td>
<td>$74,740</td>
</tr>
<tr>
<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>
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<tr>
<td>Hydrogeologist</td>
<td>9.9%</td>
<td>$118,970</td>
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<tr>
<td>Materials Scientist</td>
<td>7.1%</td>
<td>$99,530</td>
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<tr>
<td>Medical Doctor (MD)</td>
<td>14.6%</td>
<td>$192,930</td>
</tr>
<tr>
<td>Pharmacist</td>
<td>5.6%</td>
<td>$124,170</td>
</tr>
<tr>
<td>Soil Scientist</td>
<td>8.8%</td>
<td>$62,430</td>
</tr>
<tr>
<td>Water/Wastewater Engineer</td>
<td>8.3%</td>
<td>$86,800</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