Chemistry, BS

Chemists study the nature of materials to solve important societal problems at the atomic and molecular levels. You will learn the skills needed to help you find solutions related to medicine, energy, electronics and technology, and air quality. These skills can aid you in a career in environmental policy, research or education.

Program Description

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

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

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)

2020 - 2021 Major Map
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 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](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](https://changingmajors.asu.edu/request) 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](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 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 to medical, dental or pharmacy schools.

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>
</tr>
<tr>
<td>Chemist 🌶</td>
<td>6.5%</td>
<td>$74,740</td>
</tr>
<tr>
<td>Chemistry Professor 🌶</td>
<td>9.9%</td>
<td>$77,190</td>
</tr>
<tr>
<td>Climate Change Analyst 🌶 🌶</td>
<td>11.1%</td>
<td>$69,400</td>
</tr>
<tr>
<td>Crime Scene Investigator 🌶</td>
<td>16.8%</td>
<td>$57,850</td>
</tr>
<tr>
<td>High School Teacher</td>
<td>7.5%</td>
<td>$59,170</td>
</tr>
<tr>
<td>Hydrogeologist 🌶 🌶</td>
<td>9.9%</td>
<td>$118,970</td>
</tr>
<tr>
<td>Materials Scientist 🌶</td>
<td>7.1%</td>
<td>$99,530</td>
</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

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