Biochemistry, BS

LABCHBS

Interested in learning about life from a molecular perspective? You will complete a range of physical and life sciences courses that prepare you to enter numerous scientific careers including health and medicine with your strong training in critical thinking and interdisciplinary, scientific problem-solving.

Program Description

The BS program in biochemistry provides students with a course of study in the chemical processes of living organisms. Among the endeavors that depend upon a thorough grounding in the area are discoveries of new drugs, the recognition and control of new pathogens, development of new catalysts for energy transformations, the production of new materials and solutions to problems such as food production and environmental remediation.

This program is appropriate preparation for further study of biochemistry or related sciences in graduate school as well as for medical, dental or pharmacy school.

At a Glance

- **College/School:** [The College of Liberal Arts and Sciences](#)
- **Location:** Tempe campus or online
- **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 (On-campus)
2019 - 2020 Major Map (Online)
Major Map (Archives)

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
- Global Management, MGM
- 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.

Attend Online

ASU offers this program in an online format with multiple enrollment sessions throughout the year. Applicants may view the program description and request more information [here](#).
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/

Career Opportunities

A solid undergraduate education in biochemistry provides the necessary background for career paths in chemical industries, government, health care, research, teaching and other areas.

This program is appropriate preparation for further study of biochemistry or related sciences in graduate school as well as for medical, dental or pharmacy school.

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>Dentist</td>
<td>19.4%</td>
<td>$151,440</td>
</tr>
<tr>
<td>High School Teacher</td>
<td>7.5%</td>
<td>$59,170</td>
</tr>
<tr>
<td>Medical Doctor (MD)</td>
<td>14.6%</td>
<td>$192,930</td>
</tr>
<tr>
<td>Occupation</td>
<td>Growth Rate</td>
<td>Average Salary</td>
</tr>
<tr>
<td>------------------------------------</td>
<td>-------------</td>
<td>----------------</td>
</tr>
<tr>
<td>Medical Lab Technician</td>
<td>14.0%</td>
<td>not available</td>
</tr>
<tr>
<td>Medical Scientist</td>
<td>13.4%</td>
<td>$82,090</td>
</tr>
<tr>
<td>Optometrists</td>
<td>17.9%</td>
<td>$110,300</td>
</tr>
<tr>
<td>Pharmacist</td>
<td>5.6%</td>
<td>$124,170</td>
</tr>
<tr>
<td>Physician Assistant (PA)</td>
<td>37.3%</td>
<td>$104,860</td>
</tr>
<tr>
<td>Scientist/Biochemist</td>
<td>11.5%</td>
<td>$91,190</td>
</tr>
<tr>
<td>Veterinarian (Vet)</td>
<td>18.8%</td>
<td>$90,420</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).

[Sun] Bright Outlook  [Leaf] Green Occupation

**Contact Information**

Schedule an advisor appointment

School of Molecular Sciences | PSD 104

SMSadvising@asu.edu | 480-965-7667