Biochemistry, **BS**

LABCHBS

Want to explore and learn about life from a molecular perspective at the atomic level? You can do that and build problem-solving skills through a range of courses in the physical, quantitative and life sciences. You will be prepared for a wide variety of careers.

**Program Description**

Students in the BS program in biochemistry take courses in a wide array of subjects, such as basic chemistry, the properties and function of biomolecules and the mechanisms of cellular function and living organisms.

Due to the high volume of overlap in curriculum, students are not permitted to declare a concurrent degree combination with either the genetics, cell and developmental biology or the neurobiology, physiology and behavior concentration of the Bachelor of Science in biological sciences. Students should speak with their academic advisor for any further questions.

**At a Glance**

- **College/School:** The College of Liberal Arts and Sciences
- **Location:** Tempe campus or online, ASU Local@Los Angeles

- **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 I
- **Math Intensity:** Substantial

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Required Courses (Major Map)

2021 - 2022 Major Map (On-campus)
2021 - 2022 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 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 | Transfer | International | 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 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 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 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
Study abroad students gain valuable experience in a diverse set of programs in other countries. The study abroad experience helps students deepen their understanding of biochemical processes and enhance their knowledge of research methods used across the globe. With their resumes enhanced by the heightened skills in communication, critical thinking and leadership they acquired through the study abroad experience, graduates stand out in their competitive fields. https://goglobal.asu.edu/

Career Opportunities

A BS degree in biochemistry is an excellent choice for careers in medicine and health, chemical and biotechnology industries, drug design and pharmaceuticals, new sources of energy and materials, research, government laboratories, environmental and food science, teaching and many other technical areas.

The Bachelor of Science program in biochemistry provides the necessary training for competitive applications to medical, dental, pharmacy and other health-related graduate schools, and to advanced graduate research degree programs in biochemistry.

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.

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<table>
<thead>
<tr>
<th>Career</th>
<th>*Growth</th>
<th>*Median Salary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dentist</td>
<td>2.8%</td>
<td>$158,940</td>
</tr>
<tr>
<td>High School Teacher</td>
<td>3.8%</td>
<td>$62,870</td>
</tr>
<tr>
<td>Medical Doctor (MD)</td>
<td>#</td>
<td></td>
</tr>
<tr>
<td>Medical Lab Technician</td>
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<tr>
<td>Medical Scientist</td>
<td>6.1%</td>
<td>$91,510</td>
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<tr>
<td>Optometrists</td>
<td>4.3%</td>
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<tr>
<td>Pharmacist</td>
<td></td>
<td>$128,710</td>
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<tr>
<td>Physician Assistant (PA)</td>
<td>31.3%</td>
<td>$115,390</td>
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<tr>
<td>Scientist/Biochemist</td>
<td>4.0%</td>
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Veterinarian (Vet) 15.9%  $99,250

* 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