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.

In addition to the guidelines in the Concurrent Program Options section below, students interested in pursuing concurrent or second baccalaureate degrees in The College of Liberal Arts and Sciences are advised to visit the college's website for more information and requirements.

At a Glance

- **College/School:** The College of Liberal Arts and Sciences
- **Location:** Tempe or Online, ASU Local

- **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

Required Courses (Major Map)
Concurrent Program Options

Students pursuing concurrent degrees (also known as a "double major") earn two distinct degrees and receive two diplomas. Working with their academic advisors, students can create their own concurrent degree combination. Some combinations are not possible due to high levels of overlap in curriculum.

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 plus master's degree with:

- Biochemistry (Medicinal Chemistry), MS
- Global Management, MGM

Acceptance to the graduate program requires a separate application. Students typically receive approval to pursue the accelerated master's during the junior year of their bachelor's degree program. Interested students can learn about eligibility requirements and how to apply.

Admission Requirements

General University Admission Requirements:
All students are required to meet general university admission requirements.
First-year | Transfer | International | Readmission

Tuition Information

When it comes to paying for college, everyone's situation is different. Students can learn about ASU tuition and financial aid options to find out which will work best for them.

Change of Major Requirements

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

Students should visit the Change of Major form for information about how to change a major to this program.

Attend Online

ASU Online
ASU offers this program in an online format with multiple enrollment sessions throughout the year. Applicants may view the program’s ASU Online page for program descriptions and to request more information.

ASU Local

It is now possible to earn an ASU degree with ASU Local, an integrated college experience in which students take advantage of in-person success coaching and programming experiences on site while completing one of 130+ undergraduate online degree programs, all of which come with online faculty interaction and tutoring support.

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 they help students save time and money in their college journey.

Global Opportunities

Global Experience
Students participating in Global Education programs 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.

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 example titles and salaries listed below are not necessarily entry level, and students should take into consideration how years of experience, geographical location, and required advanced degrees or certifications may affect pay scales.

<table>
<thead>
<tr>
<th>Career</th>
<th>*Growth</th>
<th>*Median Salary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dentist</td>
<td>4.4%</td>
<td>$155,040</td>
</tr>
<tr>
<td>High School Teacher</td>
<td>1.0%</td>
<td>$62,360</td>
</tr>
<tr>
<td>Medical Doctor (MD)</td>
<td>2.5%</td>
<td>$214,460</td>
</tr>
<tr>
<td>Medical Lab Technician 🌟</td>
<td>4.9%</td>
<td>$57,380</td>
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<tr>
<td>Medical Scientist 🌟</td>
<td>9.8%</td>
<td>$99,930</td>
</tr>
<tr>
<td>Optometrists 🌟</td>
<td>8.8%</td>
<td>$125,590</td>
</tr>
<tr>
<td>Pharmacist</td>
<td>2.6%</td>
<td>$132,750</td>
</tr>
<tr>
<td>Physician Assistant (PA) 🌟</td>
<td>26.5%</td>
<td>$126,010</td>
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<tr>
<td>Scientist/Biochemist 🌟</td>
<td>6.7%</td>
<td>$103,810</td>
</tr>
<tr>
<td>Veterinarian (Vet) 🌟</td>
<td>19.7%</td>
<td>$103,260</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

**Contact Information**

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