Biology, BS

This program prepares you to pursue advanced degrees or a career in a variety of scientific fields. With its focus on interactive and interdisciplinary experiences, including opportunities to conduct hands-on research into cancer and Alzheimer's disease, among many others, you will gain insights into how life and physical sciences intersect in the real world.

Program Description

The BS program in biology with an emphasis in the natural sciences examines these disciplines through experiential learning. By learning in an integrative environment that emphasizes the connectedness of the life sciences, students gain a better understanding of larger scientific concepts and can view these concepts from multiple perspectives.

All of the program's core courses include laboratories.

Students are encouraged to conduct independent research under the mentorship of faculty members or during internships. Some even publish in top journals and present their results at scientific meetings.

Graduates are prepared for employment with state and federal agencies or private organizations, such as biomedical laboratories and environmental consultancies. They are also prepared for graduate or doctoral programs in human or veterinary medicine, pharmacy, dentistry or scientific research.

This major is eligible for the Western Undergraduate Exchange program at the following location: West campus. Students from Western states who select this major and campus may be eligible for reduced nonresident tuition at a rate of 150% of Arizona resident tuition plus all applicable fees. Students should click the link for more information and eligibility requirements of the WUE program.

At a Glance
• College/School: New College of Interdisciplinary Arts and Sciences
• Location: West campus, ASU@Lake Havasu
• Additional Program Fee: Yes
• Second Language Requirement: No
• First Required Math Course: MAT 210 - Brief Calculus
  OR MAT 251 Calculus for Life Sciences OR STP 226 Elements of Statistics
• Math Intensity: Moderate

Required Courses (Major Map)

2021 - 2022 Major Map
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:

Biological Data Science, MS

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.

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](https://admission.asu.edu/transfer/pathway-programs).

### Global Opportunities

**Global Experience**

Students studying biology have a wide range of opportunities they can pursue. With over 250 programs available, study abroad allows students to tailor their educational experience to their unique interests and skill sets. Students can expand their knowledge of how science impacts society through a variety of cultures and can develop global skills and knowledge to prepare them to lead in a 21st century career. [https://goglobal.asu.edu/](https://goglobal.asu.edu/)

### Career Opportunities

This program prepares graduates for a wide range of careers by offering course and laboratory work and quantitative research opportunities that develop fundamental problem-solving, critical thinking, writing and communication skills. Graduates may enter careers in:

- business
- laboratory or field research
- medicine
- publishing
- scientific journalism
- teaching

Undergraduate laboratory experience, both on and off campus, enhances employability as a laboratory technician or research associate in university and government research laboratories; in hospital and diagnostic laboratories; and in pharmaceutical, biotechnology, agricultural and food processing companies.

Students engaged in field studies are prepared for entry-level positions in private companies and state and federal agencies, such as wildlife biologist, environmental consultant or conservation officer.

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>Biological Scientist (General)</td>
<td>2.2%</td>
<td>$85,290</td>
</tr>
<tr>
<td>Climate Change Analyst 🌟</td>
<td>7.8%</td>
<td>$73,230</td>
</tr>
<tr>
<td>Health Sciences Manager 🌟🌟</td>
<td>4.8%</td>
<td>$137,940</td>
</tr>
<tr>
<td>Occupation</td>
<td>Growth Rate</td>
<td>Salary</td>
</tr>
<tr>
<td>---------------------------</td>
<td>-------------</td>
<td>---------</td>
</tr>
<tr>
<td>High School Teacher</td>
<td>3.8%</td>
<td>$62,870</td>
</tr>
<tr>
<td>Life Scientist</td>
<td>4.6%</td>
<td>$82,000</td>
</tr>
<tr>
<td>Medical Scientist</td>
<td>6.1%</td>
<td>$91,510</td>
</tr>
<tr>
<td>Molecular Biologist</td>
<td>2.2%</td>
<td>$85,290</td>
</tr>
<tr>
<td>Pharmacist</td>
<td></td>
<td>$128,710</td>
</tr>
<tr>
<td>Scientist/Biochemist</td>
<td>4.0%</td>
<td>$94,270</td>
</tr>
<tr>
<td>Veterinarian (Vet)</td>
<td>15.9%</td>
<td>$99,250</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**

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