Biology, BS

With interactive and interdisciplinary experiences, including such opportunities as conducting hands-on research on cancer and Alzheimer's disease, you can 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 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.

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 WUE, ASU at 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

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**Required Courses (Major Map)**

[2022 - 2023 Major Map](#)

[Major Map (Archives)](#)

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**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.

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**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.

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**Admission Requirements**

**General University Admission Requirements:**
All students are required to meet general university admission requirements.

[First-year](#) | [Transfer](#) | [International](#) | [Readmission](#)

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**Change of Major Requirements**

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

Students should refer to [https://changemajor.apps.asu.edu](https://changemajor.apps.asu.edu) for information about how to change a major to this program.

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**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. Students may learn more about these programs by visiting the admission site: https://admission.asu.edu/transfer/MyPath2ASU.

**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. More information on available programs is available on the Global Education website. 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. They are also prepared for graduate or doctoral programs in human or veterinary medicine, pharmacy, dentistry or scientific research.

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>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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