Applied Biological Sciences (Secondary Education in Biology), BS

Build a strong foundation in the sciences and superb lab skills as you develop the confidence to teach content you are passionate about. You can use this as a stepping stone to related graduate and professional programs.

Program Description

The secondary education in biology concentration is designed for students who want to teach biology at the high school level.

In addition to the standard curriculum, students receive hands-on experience in laboratory instruction in this BS program in applied biological sciences. The goal of the program is to prepare teachers who excel in biology and the related sciences.

Students enrolling in this concentration should also contact the Mary Lou Fulton Teachers College.

This major is eligible for the Western Undergraduate Exchange program at the following location: Polytechnic 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:** College of Integrative Sciences and Arts
- **Location:** Polytechnic campus
- **Additional Program Fee:** Yes
- **Second Language Requirement:** No
- **First Required Math Course:** MAT 251 - Calculus for Life Sciences
Required Courses (Major Map)

2020 - 2021 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:

Applied Biological Sciences, MS

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 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 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

Students wishing to pursue a future in education must understand how a diverse set of experiences, backgrounds and cultures can shape the students in their classrooms. Studying abroad can help students enhance their degree program, by offering firsthand experience of a wide range of cultures and communities. Students earn ASU credit for completed courses, while staying on track for graduation, and may apply financial aid and scholarships toward program costs. Programs can be found in countries ranging from Brazil to Finland. https://mystudyabroad.asu.edu/

Career Opportunities

Graduates of this concentration are prepared to pursue numerous entry-level careers in biology. Specific career fields include secondary education, wildlife and restoration ecology and urban horticulture. Employment opportunities exist in private and public sectors. Graduates of the general program in applied biological sciences are also prepared to succeed in graduate or professional schools in disciplines such as:

- animal health
- dentistry
- ecology
- environmental biotechnology
- horticulture
- medicine
- physical therapy
- teaching
- wildlife biology

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>Agricultural Technician</td>
<td>6.3%</td>
<td>$39,910</td>
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<tr>
<td>Biological Technician</td>
<td>10.2%</td>
<td>$43,800</td>
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<tr>
<td>High School Teacher</td>
<td>7.5%</td>
<td>$59,170</td>
</tr>
<tr>
<td>Middle School Teacher</td>
<td>7.5%</td>
<td>$57,720</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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