Are you interested in pre-med, pre-dental, or other professional programs related to human health? Would you like to apply biology knowledge and lab skills to solve challenges and innovate? An applied biology major is great for making the cross-discipline connections you'll use in careers or advanced degrees.

**Program Description**

The BS program with a concentration in applied biological sciences offers students solid foundations in biology and related sciences while allowing them to focus on an area of special interest. This concentration works well for students interested in pursuing research careers in biology or for students planning to enter graduate or professional programs related to human health including:

- biotechnology
- dentistry
- epidemiology
- medical technology
- medicine
- physical therapy
- physician's assistant programs
- public health

This major is eligible for the Western Undergraduate Exchange (WUE) 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 percent of Arizona resident tuition plus all applicable fees. See more information and eligibility requirements on the Western Undergraduate Exchange (WUE) program.

**At a Glance**
• **College/School:** College of Integrative Sciences and Arts
• **Location:** Polytechnic campus

• **Additional Program Fee:** No
• **Second Language Requirement:** No
• **First Required Math Course:** MAT 210 - Brief Calculus
• **Math Intensity:** Moderate

### Required Courses (Major Map)

2018 - 2019 Major Map
Major Map (Archives)

### Accelerated Degrees

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://students.asu.edu/changingmajors for information about how to change a major to this program.

### Transfer Agreements
ASU has partnered with colleges and universities in Arizona, California, Illinois and Washington to provide transfer curriculum pathways. Students should select their current institution to see if there is a partnership agreement between the institution and ASU for this degree program. Students who do not see their state or institution listed should check back as ASU is always working on creating new partnerships.

Transfer from a Maricopa Community College in Arizona

Select a college

- Chandler-Gilbert Community College
- Estrella Mountain Community College
- GateWay Community College
- Glendale Community College
- Mesa Community College
- Paradise Valley Community College
- Phoenix College
- Rio Salado College
- Scottsdale Community College
- South Mountain Community College

Transfer from an Arizona Community College

Select a college

- Arizona Western College
- Central Arizona College
- Cochise College
- Coconino Community College
- Dine College
- Eastern Arizona College
- Gila Community College
- Mohave Community College
- Northland Pioneer College
- Pima Community College
- Tohono O’odham Community College
- Yavapai College

Transfer from another state

Select a state

- California
- Illinois
- Washington
- Another state

Global Opportunities

Global Experience

With over 250 programs in more than 65 countries (ranging from one week to one year), study abroad is possible for all ASU students wishing to gain global skills and knowledge in preparation for a 21st century career. Students earn ASU credit for completed courses, while staying on track for graduation, and may apply financial aid and scholarships toward program costs. https://mystudyabroad.asu.edu/.
Career Opportunities

Graduates may pursue entry-level careers in wildlife and restoration ecology, urban horticulture and secondary education. The general program in applied biological sciences prepares graduates to succeed in graduate and professional schools in disciplines such as:

- biological research
- dentistry
- environmental biotechnology
- human health
- medicine
- physical therapy
- secondary education

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 Sciences Professor 🌌</td>
<td>15.2%</td>
<td>$78,240</td>
</tr>
<tr>
<td>Biological Scientist (General)</td>
<td>8.0%</td>
<td>$76,690</td>
</tr>
<tr>
<td>Biomedical Engineer</td>
<td>7.2%</td>
<td>$88,040</td>
</tr>
<tr>
<td>Clinical Trial Manager 🌌</td>
<td>9.9%</td>
<td>$118,970</td>
</tr>
<tr>
<td>Community Health Worker 🌌</td>
<td>18.1%</td>
<td>$38,370</td>
</tr>
<tr>
<td>Dentist</td>
<td>19.4%</td>
<td>$151,440</td>
</tr>
<tr>
<td>Epidemiologist</td>
<td>8.8%</td>
<td>$69,660</td>
</tr>
<tr>
<td>Family Physician 🌌</td>
<td>14.3%</td>
<td>$198,740</td>
</tr>
<tr>
<td>Health Sciences Manager 🌌</td>
<td>9.9%</td>
<td>$118,970</td>
</tr>
<tr>
<td>Healthcare Professor 🌌</td>
<td>25.9%</td>
<td>$97,870</td>
</tr>
<tr>
<td>Life Scientist</td>
<td>9.2%</td>
<td>$74,540</td>
</tr>
<tr>
<td>Medical Scientist 🌌</td>
<td>13.4%</td>
<td>$82,090</td>
</tr>
<tr>
<td>Medical and Health Services Manager</td>
<td>20.5%</td>
<td>$98,350</td>
</tr>
<tr>
<td>Microbiologist</td>
<td>8.2%</td>
<td>$69,960</td>
</tr>
<tr>
<td>Occupation</td>
<td>Growth Rate</td>
<td>Average Salary</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>-------------</td>
<td>----------------</td>
</tr>
<tr>
<td>Molecular Biologist</td>
<td>8.0%</td>
<td>$76,690</td>
</tr>
<tr>
<td>Neuropsychologist</td>
<td>10.5%</td>
<td>$97,740</td>
</tr>
<tr>
<td>Physical Therapist (PT)</td>
<td>28.0%</td>
<td>$86,850</td>
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<tr>
<td>Podiatrist</td>
<td>10.3%</td>
<td>$127,740</td>
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<tr>
<td>Respiratory Therapist (RT)</td>
<td>23.4%</td>
<td>$59,710</td>
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<tr>
<td>Respiratory Therapy Technician</td>
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<td>$50,350</td>
</tr>
<tr>
<td>Surgeon (General)</td>
<td>11.4%</td>
<td>#</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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