Applied Biological Sciences (Natural Resource Ecology), BS

Do you have a passion for wildlife, for exploring nature and for seeing that our world's natural resources and lands are managed in sustainable ways? You'll gain an excellent foundation in science while you enjoy lots of field opportunities to build expertise for careers that connect with conservation and restoration of biodiversity and habitats.

Program Description

The BS in applied biological sciences with a concentration in natural resource ecology is for students who are interested in sustainably managing and restoring degraded plant, soil and wildlife resources. Graduates of this degree program have the academic background and hands-on experience that allow them to work in government agencies or environmental consulting firms or enter graduate programs in the area of natural resource ecology. Range conservationists, wildlife managers and other ecologists work in a variety of ecosystems to ensure sustainability of our natural resources for future generations.

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 [WUE](#)

- **Additional Program Fee:** No
- **Second Language Requirement:** No
- **First Required Math Course:** MAT 210 - Brief Calculus.
  
or MAT 251
Required Courses (Major Map)

2019 - 2020 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://changingmajors.asu.edu/request for information about how to change a major to this program.

Transfer Options

ASU is committed to helping you thrive by offering tools that allow you to personalize your 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. Learn more about these programs by visiting the Admissions site.

Global Opportunities

PLuS Alliance
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/

Global Degree

Career Opportunities

Career opportunities include employment in public agencies and private consulting firms, and includes possible positions such as:

- environmental consultant
- environmental research and education
- natural resource manager
- park manager
- range manager
- watershed manager
- wildlife biologist or ecologist

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>Environmental Restoration Planner 🌿🍁</td>
<td>11.1%</td>
<td>$69,400</td>
</tr>
<tr>
<td>Environmental Sciences Professor ✨</td>
<td>9.6%</td>
<td>$76,360</td>
</tr>
<tr>
<td>Job Title</td>
<td>Growth Rate</td>
<td>Salary</td>
</tr>
<tr>
<td>---------------------------</td>
<td>-------------</td>
<td>------------</td>
</tr>
<tr>
<td>Farm Manager</td>
<td>6.3%</td>
<td>$61,480</td>
</tr>
<tr>
<td>Fish and Game Warden</td>
<td>4.3%</td>
<td>$56,410</td>
</tr>
<tr>
<td>Fish and Wildlife Biologist</td>
<td>7.6%</td>
<td>$62,290</td>
</tr>
<tr>
<td>Forestry Professor</td>
<td>7.8%</td>
<td>$87,420</td>
</tr>
<tr>
<td>Park Ranger</td>
<td>6.3%</td>
<td>$61,480</td>
</tr>
<tr>
<td>Soil Conservationist</td>
<td>6.3%</td>
<td>$61,480</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).

Solar Bright Outlook | Green Occupation

**Contact Information**

College of Integrative Sciences and Arts | SANCA 233
cisa@asu.edu | 480-727-1526