Secondary Education (Biological Sciences), BAE

Prepare to teach biology to learners in grades 6-12. Coursework paired with internships and residencies will allow you to obtain teacher certification after graduation and start a career in a high-demand specialty in education.

Program Description

The BAE in secondary education with a concentration in biology prepares students to educate learners in grades 6-12. Aligned with strong content knowledge of biological sciences, this program also focuses on integrating technology into teaching and provides the professional experience needed to develop teaching skills that lead to success in the classroom.

Extensive professional experiences are built into this program to prepare students to enter the teaching profession after graduation. Graduates will complete internships prior to a full-time teaching residency. Mary Lou Fulton Teachers College has developed a distinctive approach to teacher-preparation, which includes student participation in internships and residencies while receiving guidance and support from faculty members and highly qualified certified teachers. Professional experiences are designed to prepare graduates to work with mutually supportive colleagues to address the academic and social-emotional needs of learners.

Graduates from this program earn a bachelor's degree in their content area and will receive an institutional recommendation from ASU that is recognized by the Arizona Department of Education for teacher certification in Secondary Education, 6-12. To be eligible for secondary certification in Arizona, students must also earn a passing score on the professional knowledge exam offered through the National Evaluation Series or Arizona Educator Proficiency Assessments.

At a Glance
• College/School: Mary Lou Fulton Teachers College
• Location: Polytechnic, Tempe, West

• Additional Program Fee: No
• Second Language Requirement: No
• First Required Math Course: MAT 170 - Precalculus
• Math Intensity: Moderate

Required Courses (Major Map)

2022 - 2023 Major Map
Major Map (Archives)

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.

Admission Requirements

General University Admission Requirements:
All students are required to meet general university admission requirements.
First-year | 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 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
Future science educators can enrich their experience and stay on track academically with study abroad. They can learn about ecology, health sciences, disease tracking and medical studies while being immersed in a new culture and working alongside peers from other countries. Students can also explore how schooling works in countries that are leaders in education, and they can conduct comparative research. Students may explore the ASU study abroad programs at https://goglobal.asu.edu/.

Career Opportunities
Graduates of Mary Lou Fulton Teachers College are highly sought out teachers in public, charter and private education institutions. The demand for well-prepared secondary teachers is strong, particularly in the areas of math and science. Job opportunities in a fast growing state such as Arizona are numerous.

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>College Program Director</td>
<td>3.7%</td>
<td>$97,500</td>
</tr>
<tr>
<td>Fitness and Wellness Coordinator</td>
<td>not available</td>
<td></td>
</tr>
<tr>
<td>High School Teacher</td>
<td>3.8%</td>
<td>$62,870</td>
</tr>
<tr>
<td>Instructional Specialist</td>
<td>5.9%</td>
<td>$66,970</td>
</tr>
<tr>
<td>Middle School Teacher</td>
<td>3.6%</td>
<td>$60,810</td>
</tr>
<tr>
<td>Preschool Director</td>
<td>1.0%</td>
<td>$49,160</td>
</tr>
<tr>
<td>School Principal</td>
<td>3.9%</td>
<td>$98,490</td>
</tr>
<tr>
<td>Tutor</td>
<td></td>
<td>not available</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

Professional Licensure
ASU programs that may lead to professional licensure or certification are intended to prepare students for potential licensure or certification in Arizona. Completion of an ASU program may not meet educational requirements for licensure or certification in another state. For more information, students should visit the ASU professional licensure webpage: https://admission.asu.edu/academics/licensure.