

# Secondary Education (Biological Sciences), BAE

TEBIOBAE

Middle and high school teachers help ignite minds, transform lives and strengthen communities. Coursework paired with internships and residencies will prepare you to obtain teacher certification after graduation and to teach learners in grades 6-12.


## Program description

Aligned with strong content knowledge of biological sciences, the BAE in secondary education with a concentration in biology focuses on integrating technology into teaching and provides the professional experience needed to develop teaching skills that lead to success in the classroom.

Mary Lou Fulton Teachers College has developed a team-based approach to teacher preparation, allowing students to participate in professional experiences (internships and teaching residencies) with a team of peers while receiving guidance and support from ASU faculty members and highly qualified certified teachers. Students complete a series of internships prior to a semester-long full-time teaching residency. Team-based professional experiences are designed to prepare students to work with mutually supportive colleagues to address the academic and social-emotional needs of learners. The primary goal of professional experiences is to provide students with multiple opportunities to apply knowledge learned in coursework to practice in the classroom.

Graduates from this program earn a bachelor's degree in their content area and 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:** [Tempe](#), [West Valley](#)
- **Second language requirement:** No
- **First required math course:** MAT 170 - Precalculus
- **Math intensity:** Moderate 

## Required courses (Major Map)

[2024 - 2025 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](#)

## Tuition information

When it comes to paying for higher education, everyone's situation is different. Students can learn about [ASU tuition and financial aid](#) options to find out which will work best for them.

## Change of Major Requirements

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

Students should visit the [Change of Major form](#) 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.

## Global opportunities

### Global experience

Because of climate change, geopolitical instability or economic factors, the United Nations and other institutions predict that migration will increase globally for the foreseeable future. Learners will migrate to new communities. Increasingly, educators will be asked to meet the needs of students who speak languages other than English and who bring a variety of cultures into classrooms and learning environments. Education students participating in study abroad programs can prepare for this reality. By engaging in [Global Education programs](#), students can expand their notion of normal schooling and deepen their understanding of how to foster inclusive and inspiring learning environments.

## 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.

Example job titles and salaries listed below are not necessarily entry level, and students should take into consideration how years of experience and geographical location may affect pay scales. Some jobs also may require advanced degrees, certifications or state-specific licensure.

Career	*Growth	*Median salary
<a href="#"><u>College Program Director</u></a>	3.5%	\$99,940
<a href="#"><u>Fitness and Wellness Coordinator</u></a>	4.3%	\$56,090
<a href="#"><u>High School Teacher</u></a>	1.0%	\$62,360
<a href="#"><u>Instructional Specialist</u></a>	2.5%	\$66,490
<a href="#"><u>Middle School Teacher</u></a>	0.8%	\$61,810
<a href="#"><u>Preschool Director</u></a>		\$49,690
<a href="#"><u>School Principal</u></a>	1.1%	\$101,320
<a href="#"><u>Tutor</u></a>	3.3%	\$36,680

\* Data obtained from the Occupational Information Network (O\*NET) under sponsorship of the U.S. Department of Labor/Employment and Training Administration (USDOL/ETA).



## 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.

## Contact information

[Division of Teacher Preparation](#) | ED 118

[ASUeducation@asu.edu](mailto:ASUeducation@asu.edu) | 480-965-9995