Elementary Education (Science, Technology, Engineering and Mathematics), BAE

Moment by moment, day by day and person by person, educators ignite minds and strengthen communities. Programs at Mary Lou Fulton Teachers College offer a blend of classroom instruction and professional experiences that prepare you to ask the right questions, navigate uncertainty and make a difference.

Program Description

The BAE program in elementary education with an emphasis on science, technology, engineering and mathematics — STEM — has coursework designed for students looking to advance their skills in STEM disciplines and wishing to learn techniques to effectively engage K-12 learners in the 21st century. The coursework informs educators how to equip learners with the specialized STEM knowledge they need to solve challenging problems and apply critical thinking skills. The STEM program offers students a firm grounding in the language, current research and best practices in STEM education accompanied by professional experiences.

The teacher certification program for elementary education with an emphasis in STEM is clinically embedded during both the junior and senior years. Mary Lou Fulton Teachers College students complete internships during their junior year and a full time, year-long apprenticeship, known as their senior year residency, in K-8 classrooms. Coursework is designed to support the development of instructional competencies, professional skills and content knowledge. Coursework is complemented by professional experiences, which provide interns and teacher candidates opportunities to apply and reflect upon their knowledge and skills in teaming and collaborative models. Mary Lou Fulton Teachers College faculty and highly qualified lead teachers from partner school districts and charter schools work in collaboration to support professional growth aligned to each student's personal goals. Additionally, these professional experiences provide students an opportunity to work directly with children and make an immediate impact on student achievement. This intensive, hands-on model of teacher preparation creates highly sought-after graduates and is unmatched in Arizona.
Graduates are recommended for grades K-8 elementary teacher certification. Those desiring to teach in a public school must pass the appropriate Arizona educator exams (National Evaluation Series or Arizona Educator Proficiency Assessments) to be certified to teach in the state of Arizona.

At a Glance

- **College/School:** [Mary Lou Fulton Teachers College](#)
- **Location:** Polytechnic campus
- **Additional Program Fee:** No
- **Second Language Requirement:** No
- **First Required Math Course:** MAT 142 - College Mathematics or MAT 117 College Algebra or MAT 170 Precalculus
- **Math Intensity:** General

Required Courses (Major Map)

2021 - 2022 Major Map
Major Map (Archives)

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://changemajor.apps.asu.edu](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 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
Future educators must learn to create inclusive and inspiring learning environments and they can do this by expanding their horizons through study abroad. They can explore how schooling works in countries that are leaders in education, and they can conduct comparative research. Students can make a difference in a community by volunteering at schools and engaging in local educational programs through service-learning opportunities. Students may visit https://goglobal.asu.edu/ to explore programs.

Career Opportunities

There is a demand for highly qualified elementary teachers in math or science in Arizona. The job opportunities in a fast-growing state such as Arizona are numerous, and demand for math and science teachers will continue to grow.

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>Elementary Teacher</td>
<td>3.5%</td>
<td>$60,940</td>
</tr>
<tr>
<td>Fitness and Wellness Coordinator</td>
<td>not available</td>
<td></td>
</tr>
<tr>
<td>Instructional Specialist</td>
<td>5.9%</td>
<td>$66,970</td>
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<tr>
<td>Middle School Teacher</td>
<td>3.6%</td>
<td>$60,810</td>
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<tr>
<td>Preschool Director</td>
<td>1.0%</td>
<td>$49,160</td>
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<tr>
<td>School Principal</td>
<td>3.9%</td>
<td>$98,490</td>
</tr>
<tr>
<td>Tutor</td>
<td>not available</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).

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Contact Information