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

Moment by moment, day by day and person by person, educators improve lives and strengthen communities. Wherever life takes you, an education degree prepares you to master new knowledge, communicate effectively and thrive in a world --- and an economy --- in which lifelong learning is key to success and happiness.

Program Description

The BAE program in elementary education with an emphasis on science, technology, engineering and mathematics has course work designed for teachers looking to advance their skills in STEM disciplines and learn techniques to effectively engage K-12 learners in the 21st century. The coursework addresses essentials for educators to equip the learners with the specialized knowledge needed in STEM topics to solve challenging problems and apply critical thinking skills. The STEM program offers students a firm grounding in science, using the tools of technology, the processes of engineering and the language of math, with current research and best practices accompanied by real-world experiences.

The elementary education teacher certification program is clinically embedded during the junior and senior years. The primary goal of all clinical experiences is to provide interns and student teachers with multiple opportunities to apply knowledge learned in coursework to practice in preK-12 classrooms. Mary Lou Fulton Teachers College students complete internships during the junior year that require one day per week in grades K-8 classrooms and student teaching, which is a full-time, year-long apprenticeship known as the senior year residency. Mary Lou Fulton Teachers College faculty and highly qualified mentor teachers from our partner school districts and charter schools collaboratively coach interns and student teachers during required clinical experiences in math or science settings. The clinical experience provided by the program, known as iTeachAZ, is unmatched in Arizona. It provides students with an opportunity to work directly with children and make an immediate impact on classroom achievement. This intensive, hands-on clinical experience model of teacher preparation creates highly sought-after graduates.
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
- **Math Intensity:** General

Required Courses (Major Map)

2018 - 2019 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://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

There is a demand for highly qualified elementary teachers in math or science in Arizona, according to recent research on teacher supply and demand. 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>10.1%</td>
<td>$92,360</td>
</tr>
<tr>
<td>Elementary Teacher</td>
<td>7.4%</td>
<td>$57,160</td>
</tr>
<tr>
<td>Fitness and Wellness Coordinator</td>
<td>10.6%</td>
<td>$81,630</td>
</tr>
<tr>
<td>Instructional Designer</td>
<td>10.5%</td>
<td>$63,750</td>
</tr>
<tr>
<td>Instructional Specialist</td>
<td>10.5%</td>
<td>$63,750</td>
</tr>
<tr>
<td>Middle School Teacher</td>
<td>7.5%</td>
<td>$57,720</td>
</tr>
<tr>
<td>Online Learning Coordinator</td>
<td>10.6%</td>
<td>$81,630</td>
</tr>
<tr>
<td>Preschool Director</td>
<td>10.8%</td>
<td>$46,890</td>
</tr>
<tr>
<td>School Principal</td>
<td>7.9%</td>
<td>$94,390</td>
</tr>
<tr>
<td>Tutor</td>
<td>9.9%</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

Contact Information

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