Mathematics, BS
LAMATBS

Did you know you can use math to help change the world? Whether you want to manage the impacts of climate change or reduce the spread of disease, learn critical thinking skills that can be applied to almost any problem. This degree program prepares you for many top-rated jobs.

Program Description

The BS degree program in mathematics offers a grounding in both theoretical and applied mathematical concepts.

Classes cover a broad spectrum of advanced mathematical topics, including differential equations, modeling, numerical analysis, number theory, cryptography and real analysis.

In addition to the guidelines in the Concurrent Program Options section below, students interested in pursuing concurrent or second baccalaureate degrees in The College of Liberal Arts and Sciences are advised to visit the college's website for more information and requirements.

At a Glance

- **College/School:** The College of Liberal Arts and Sciences
- **Location:** Tempe
- **Additional Program Fee:** Yes
- **Second Language Requirement:** No
- **First Required Math Course:** MAT 270 - Calculus w/Analytic Geometry I
- **Math Intensity:** Substantial

Required Courses (Major Map)
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.

Accelerated Program Options

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 plus master's degree** with:

- **Mathematics, MA**

Acceptance to the graduate program requires a separate application. Students typically receive approval to pursue the accelerated master’s during the junior year of their bachelor's degree program. Interested students can learn about eligibility requirements and [how to apply](#).

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 college, 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.

Program Learning Outcomes

Program learning outcomes identify what a student will learn or be able to do upon completion of their program. This program has the following program outcomes:

- Analyze quantitative problems and draw conclusions by applying proper mathematical theories.
- Synthesizing definitions and previous theoretical results to draw new conclusions and prove them.
- Apply concepts from advanced mathematics to solve real-world problems in STEM fields.

Global Opportunities

Global Experience

Each of the more than 300 Global Education program options provide an opportunity for students to develop a valuable skill set that can give them an advantage in their career and personal enrichment.

Whether in a foreign country, in the U.S. or online, students are encouraged to build communication skills, challenged to adapt and persevere, exposed to differences across the world, and they increase their ability to work with diverse groups of people. Graduates who possess heightened cultural competency and leadership and critical thinking skills acquired through study abroad may stand out in a competitive job market.

Career Opportunities

Mathematics is foundational and can be applied to many different types of careers in many fields. It is a crucial part of engineering, life sciences, business, economics and social sciences.

Graduates with a bachelor's degree in mathematics can pursue careers in fields as diverse as computer science, finance, biotechnology, engineering, medical research and education. These are just a few of the top careers possible with a Bachelor of Science in mathematics:

- cryptographer
- data analyst
- engineer
- financial analyst
- mathematician
- operations research analyst
- statistician
- teacher
Many undergraduate math majors also pursue graduate studies in mathematics, medicine or law.

Career example titles and salaries listed below are not necessarily entry level, and students should take into consideration how years of experience, geographical location, and required advanced degrees or certifications may affect pay scales.

<table>
<thead>
<tr>
<th>Career</th>
<th>*Growth</th>
<th>*Median Salary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bioinformatics Scientist</td>
<td>3.9%</td>
<td>$87,300</td>
</tr>
<tr>
<td>Computer Scientist</td>
<td>22.7%</td>
<td>$136,620</td>
</tr>
<tr>
<td>Data Analyst</td>
<td></td>
<td>$48,880</td>
</tr>
<tr>
<td>Financial Analyst</td>
<td>7.6%</td>
<td>$95,080</td>
</tr>
<tr>
<td>Fraud Investigator</td>
<td>6.1%</td>
<td>$73,810</td>
</tr>
<tr>
<td>High School Teacher</td>
<td>1.0%</td>
<td>$62,360</td>
</tr>
<tr>
<td>Information Security Analyst</td>
<td>31.5%</td>
<td>$112,000</td>
</tr>
<tr>
<td>Mathematician</td>
<td>2.2%</td>
<td>$112,110</td>
</tr>
<tr>
<td>Mathematics Professor</td>
<td>3.2%</td>
<td>$77,420</td>
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<tr>
<td>Operations Research Analyst</td>
<td>22.5%</td>
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<tr>
<td>Statistician</td>
<td>31.6%</td>
<td>$98,920</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

**Contact Information**

Schedule an advisor appointment
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