Mathematics, BS

LAMATBS

Attain an extensive education in mathematics and a background focused in science and technology. A combination of mathematical skills and a strong background in the sciences is in high demand for a wide variety of STEM fields.

Program description

The BS degree program in mathematics offers a deep 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. This degree focuses on the highest levels of math offered in undergraduate courses and is recommended for those who are considering a graduate degree in mathematics.

This degree pairs well with several other areas of study in a variety of fields, including computer science, physics, astrophysics and engineering, as well as economics, business, music and art.

In addition to reviewing 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

- **Second language requirement:** No
- **First required math course:** MAT 270 - Calculus w/Analytic Geometry I
- **Math intensity:** Substantial 

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.

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 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.

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 provides 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, and 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 for careers in many fields. Graduates with a bachelor's degree in mathematics go on to work in areas such as research, computer science, law, finance, biotechnology, engineering, health care and education.

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
Bioinformatics Scientist	3.9%	$87,300
Computer Scientist	22.7%	$136,620
Data Analyst		$48,880
Financial Analyst	7.6%	$95,080

High School Teacher	1.0%	$62,360
Information Security Analyst	31.5%	$112,000
Mathematician	2.2%	$112,110
Mathematics Professor	3.2%	$77,420
Operations Research Analyst	22.5%	$85,720
Statistician	31.6%	$98,920

* 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
School of Mathematical and Statistical Sciences | WXLR 216
math@asu.edu | 480-965-7195