

Applied Mathematics, BS

ASMATBS


Gain a broad and rigorous foundation in mathematics that will enable you to solve complex problems. Grow your knowledge and skill set in computing and statistics as well as theoretical and applied mathematics.

Program description

The BS program in applied mathematics emphasizes quantitative problem-solving and critical thinking through courses that expose students to a variety of mathematical theories, techniques and applications currently used by analysts and researchers in government, industry and nonprofit organizations.

This major is eligible for the Western Undergraduate Exchange program at the following location: West Valley campus. Students from Western states who select this major and campus may be eligible for reduced nonresident tuition at a rate of 150% of Arizona resident tuition plus all applicable fees. Students should click the link for more information and eligibility requirements of [the WUE program](#).

At a glance

- **College/School:** [New College of Interdisciplinary Arts and Sciences](#)
- **Location:** [West Valley](#) **WUE**
- **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:

[Biological Data Science, MS](#)

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.

Global opportunities

Global experience

Study abroad enables students in applied mathematics to gain valuable hands-on experience in another part of the world. With more than 300 programs available, they can tailor their experience to their specific interests and skill sets.

Participation in study abroad programs provides students with the heightened cultural competency and leadership and critical thinking skills that will enhance their resumes and help them stand out in a competitive career field.

More information on available programs can be found on the [Global Education Office](#) website.

Career opportunities

Graduates are prepared for entry-level positions in industry, finance, government, nonprofit organizations and education. They also may pursue advanced degrees in the mathematical sciences (e.g., mathematics, statistics and computer science), and their career opportunities may involve:

- applied mathematical networks
- financial mathematics
- general applied mathematics
- mathematical biology
- operations research

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
Biostatistician 🌟	31.6%	\$98,920
Business Intelligence Analyst 🌟	35.2%	\$103,500
Clinical Data Manager 🌟	35.2%	\$103,500
Health Sciences Manager 🌟	4.8%	\$144,440
High School Teacher	1.0%	\$62,360
Hydrogeologist 🌟	4.8%	\$144,440
Mathematician	2.2%	\$112,110
Molecular Biologist	3.9%	\$87,300

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

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