Applied Mathematics, BS

LSMATBS

Apply your passion and talent for math to contexts in business and industry as well as the biological, physical and social sciences. Acquire an arsenal of tools and learn to build cross-discipline connections so you can help solve today's challenges.

Program Description

The BS in applied mathematics offered by the College of Integrative Sciences and Arts is a transdisciplinary program focused on developing flexible problem-solvers who can apply mathematical techniques and skills to a wide range of problems in the sciences, such as biology, social sciences, chemistry, physics and engineering.

The coursework builds a foundation in mathematical modeling, data analysis and the interpretation of mathematical results in real-world settings. Students choose electives in the sciences, technology, engineering or other areas of interest to complement and provide context for their mathematical training.

At a Glance

- **College/School:** College of Integrative Sciences and Arts
- **Location:** Polytechnic
- **Additional Program Fee:** Yes
- **Second Language Requirement:** No
- **First Required Math Course:** MAT 270 - Calculus w/Analytic Geometry I or MAT 265 Calculus for Engineers
- **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.

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.

Global Opportunities

Global Experience
Students gain valuable experience when studying abroad, experience which will enhance their resumes. Students often cite participating in Global Education programs as the highlight of their academic career and a crucial moment in helping them gain a clearer view of the world, its peoples and the complex challenges facing us all.

The Global Education office offers a suite of faculty-directed global experience programs designed to connect students with real-life issues that impact local communities yet transect borders. Through any of the more than 300 programs available, students can see the world as they never have before and come away with memories to last a lifetime. Graduates who possess the heightened cultural competency and leadership and critical thinking skills they acquired through study abroad may stand out in a competitive field.

The College of Integrative Sciences and Arts recommends these programs for students majoring in applied mathematics.

Career Opportunities

Graduates are prepared to apply their analytic skills and technical knowledge to problems in a range of careers in industry, government, education or nonprofit organizations. They also pursue advanced degrees in the mathematical sciences (e.g., mathematics, statistics and applied mathematics such as mathematical biology).

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>
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<tbody>
<tr>
<td>Actuary (Financial Risk Analyst)</td>
<td>23.2%</td>
<td>$113,990</td>
</tr>
<tr>
<td>Bioinformatics Scientist</td>
<td>3.9%</td>
<td>$87,300</td>
</tr>
<tr>
<td>Biostatistician</td>
<td>31.6%</td>
<td>$98,920</td>
</tr>
<tr>
<td>Health Sciences Manager</td>
<td>4.8%</td>
<td>$144,440</td>
</tr>
<tr>
<td>High School Teacher</td>
<td>1.0%</td>
<td>$62,360</td>
</tr>
<tr>
<td>Mathematician</td>
<td>2.2%</td>
<td>$112,110</td>
</tr>
<tr>
<td>Operations Research Analyst</td>
<td>22.5%</td>
<td>$85,720</td>
</tr>
<tr>
<td>Photonic Engineer</td>
<td>3.3%</td>
<td>$104,600</td>
</tr>
<tr>
<td>Statistician</td>
<td>31.6%</td>
<td>$98,920</td>
</tr>
<tr>
<td>Validation Engineer</td>
<td>11.7%</td>
<td>$96,350</td>
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</tbody>
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* Data obtained from the Occupational Information Network (O*NET) under sponsorship of the U.S. Department of Labor/Employment and Training Administration (USDOL/ETA).
Contact Information

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