The applied mathematics program provides a deeper understanding of how mathematics, computing and statistics converge in real-world applications, preparing students for careers in finance, statistical analysis and data analysis.

**Program Description**

The School of Mathematical and Natural Sciences offers a BS degree in applied mathematics in the New College of Interdisciplinary Arts and Sciences at ASU's West campus.

Applied mathematics is an interdisciplinary program that provides a broad and rigorous foundation in applied mathematics. It includes a foundation in computing and statistics as well as both theoretical and applied mathematics.

The program 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 (WUE) program at the following location: West campus. Students from Western states who select this major and campus may be eligible for reduced nonresident tuition at a rate of 150 percent of Arizona resident tuition plus all applicable fees. See more information and eligibility requirements on the Western Undergraduate Exchange (WUE) program.

**At a Glance**

- **College/School:** New College of Interdisciplinary Arts and Sciences
- **Location:** West campus
- **Additional Program Fee:** No
- **Second Language Requirement:** No
- **First Required Math Course:** MAT 270 - Calculus w/Analytic Geometry I
- **Math Intensity:** Substantial
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 see https://students.asu.edu/changingmajors for information about how to change the 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
- Chandler-Gilbert Community College
- Estrella Mountain Community College

Transfer from an Arizona Community College
- Arizona Western College
- Central Arizona College
- Cochise College

Transfer from another 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

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 interests would suggest the appropriate degree tracks and choice of courses, such as:

- applied mathematical networks
- financial mathematics
- general applied mathematics
- mathematical biology
- operations research
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>Actuary (Financial Risk Analyst)</td>
<td>22.5%</td>
<td>$101,560</td>
</tr>
<tr>
<td>Bioinformatics Scientist</td>
<td>8.0%</td>
<td>$76,690</td>
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<tr>
<td>Biostatistician</td>
<td>33.8%</td>
<td>$84,060</td>
</tr>
<tr>
<td>Business Intelligence Analyst</td>
<td>9.3%</td>
<td>$88,510</td>
</tr>
<tr>
<td>Clinical Data Manager</td>
<td>33.8%</td>
<td>$84,060</td>
</tr>
<tr>
<td>Clinical Trial Manager</td>
<td>9.9%</td>
<td>$118,970</td>
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<tr>
<td>Education Professor</td>
<td>10.3%</td>
<td>$64,020</td>
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<tr>
<td>Health Sciences Manager</td>
<td>9.9%</td>
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<tr>
<td>High School Teacher</td>
<td>7.5%</td>
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<tr>
<td>Hydrogeologist</td>
<td>9.9%</td>
<td>$118,970</td>
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<tr>
<td>Mathematical Science Assistant</td>
<td>11.0%</td>
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<tr>
<td>Mathematical Technician</td>
<td>7.8%</td>
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<td>Mathematician</td>
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<td>Mathematics Professor</td>
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<td>Middle School Teacher</td>
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<tr>
<td>Molecular Biologist</td>
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<td>$76,690</td>
</tr>
<tr>
<td>Statistician</td>
<td>33.8%</td>
<td>$84,060</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**

School of Mathematical and Natural Sciences | FAB N100  
mnsadvising@asu.edu | 602-543-3000