Mathematics, BS

Did you know you can use math to 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.

Students with a bachelor's degree in mathematics can pursue careers in fields as diverse as computer science, finance, biotechnology, engineering, medical research and education.

At a Glance

- **College/School:** The College of Liberal Arts and Sciences
- **Location:** Tempe campus
- **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)

2020 - 2021 Major Map
Major Map (Archives)
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 and master's degree with:

Mathematics, MA

Acceptance to the graduate program requires a separate application. During their junior year, eligible students will be advised by their academic departments to apply.

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 refer to https://changingmajors.asu.edu/request 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 the Transfer Map search 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 help students save time and money in their college journey. Students may learn more about these programs by visiting the admission site: https://admission.asu.edu/transfer/pathway-programs.

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

Mathematics is foundational and can be applied to many different types of careers. Math is a crucial part of engineering, life sciences, business, economics and social sciences. Many undergraduate math majors also pursue graduate studies in medicine or law. These are just a few of the top careers possible with a BS in mathematics:

- cryptographer
- engineer
- financial analyst
- mathematician
- operations research analyst
- statistician
- teacher

Students interested in a career in teaching or education may also consider the bachelor's degree in mathematics concentration in secondary education:
https://math.asu.edu/content/mathematics-secondary-education.

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>Bioinformatics Scientist</td>
<td>8.0%</td>
<td>$76,690</td>
</tr>
<tr>
<td>Computer Scientist</td>
<td>19.2%</td>
<td>$114,520</td>
</tr>
<tr>
<td>Financial Analyst</td>
<td>10.9%</td>
<td>$84,300</td>
</tr>
<tr>
<td>Fraud Investigator</td>
<td>9.6%</td>
<td>$69,520</td>
</tr>
<tr>
<td>High School Teacher</td>
<td>7.5%</td>
<td>$59,170</td>
</tr>
<tr>
<td>Information Security Analyst</td>
<td>28.5%</td>
<td>$95,510</td>
</tr>
<tr>
<td>Occupation</td>
<td>Growth Rate</td>
<td>Average Salary</td>
</tr>
<tr>
<td>----------------------------</td>
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</tr>
<tr>
<td>Mathematician</td>
<td>29.7%</td>
<td>$103,010</td>
</tr>
<tr>
<td>Mathematics Professor</td>
<td>9.2%</td>
<td>$70,910</td>
</tr>
<tr>
<td>Operations Research Analyst</td>
<td>27.4%</td>
<td>$81,390</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

Schedule an advisor appointment  
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