The volume and detail of information being captured through online sources is growing exponentially. That information is called data, and it's changing the way we live. In the future, data analytics training will be an invaluable skill for careers in business, engineering and government.

Program Description

In the BS program in mathematics with a concentration in statistics students learn innovative mathematical, computational and statistical methods to analyze data sets as well as how to use data in real-world applications. Using data analytics, students discover how to generate insights that inform fact-based decision-making. They use cutting-edge techniques to study and understand methods of statistical inference and explore strategies for dealing with uncertainty.

At a Glance

- **College/School:** 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)

2018 - 2019 Major Map
Major Map (Archives)

Accelerated Degrees
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:

Statistics, MS

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://students.asu.edu/changingmajors](https://students.asu.edu/changingmajors) for information about how to change a major to this program.

**Transfer Options**

ASU is committed to helping you thrive by offering tools that allow you to personalize your 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. Learn more about these programs by visiting the [Admissions site](https://students.asu.edu/changingmajors).

**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/](https://mystudyabroad.asu.edu/)
Career Opportunities

Statistical analysis and data mining have been identified as two of the most desirable skills in today's job market. Based on factors like pay, growth and job satisfaction, statistics has been named in separate job reports as one of the best careers for millennials. Data and the analysis of data is big business, and the Department of Labor projects a 25 percent growth in the need for employees trained in data analytics. For students pursuing a bachelor's degree in mathematics with a concentration in statistics, that means an exciting future of career opportunities in fields as diverse as business, finance, engineering, technology, sports, marketing, government and other areas of the economy.

These are just a few of the top career paths you can pursue with a major in this bachelor's degree program:

- actuary
- data scientist
- financial analyst
- market research analyst
- software engineer
- sports statistician
- teacher or professor

Students also can combine statistics with other disciplines, such as business or economics, to enhance preparation for their personal career goals.

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>Biostatistician ☉</td>
<td>33.8%</td>
<td>$84,060</td>
</tr>
<tr>
<td>Business Professor ☉</td>
<td>18.1%</td>
<td>$80,300</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>
</tr>
<tr>
<td>Field Researcher</td>
<td>2.5%</td>
<td>$54,270</td>
</tr>
<tr>
<td>Health Sciences Manager ☉ ☉</td>
<td>9.9%</td>
<td>$118,970</td>
</tr>
<tr>
<td>Occupation</td>
<td>Growth Rate</td>
<td>Annual Salary</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>-------------</td>
<td>---------------</td>
</tr>
<tr>
<td>High School Teacher</td>
<td>7.5%</td>
<td>$59,170</td>
</tr>
<tr>
<td>Market Research Analyst</td>
<td>23.2%</td>
<td>$63,230</td>
</tr>
<tr>
<td>Mathematical Science Assistant</td>
<td>11.0%</td>
<td>not available</td>
</tr>
<tr>
<td>Mathematical Technician</td>
<td>7.8%</td>
<td>not available</td>
</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>Risk Manager</td>
<td>9.6%</td>
<td>$69,520</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).

Solar Bright Outlook  Green Occupation

## Contact Information

Schedule an advisor appointment
School of Mathematical and Statistical Sciences | WXLR A211
math@asu.edu | 480-965-7195