

# Biostatistics, MS

NHBSTMS

Across health care systems, massive amounts of health data are collected. Learn to design and execute health research studies with leaders in the field that will answer the important questions and lead to better health outcomes.

## Program description

### Degree awarded: MS Biostatistics

The MS program in biostatistics provides training in applied biostatistical methodology and its applications to solve practical problems in health-related sciences. Expertise is necessary to design, implement, evaluate and disseminate research and translate information into improved health outcomes for individuals, systems and populations. Students in this program learn fundamental biostatistics skills that provide the knowledge necessary for effective collaboration with health researchers. Students learn how to design randomized, controlled clinical trials and intervention studies to guarantee data quality and make valid causal inferences. An applied research focus and mentorship approach aids students as they work to solve a real health-related research problem to complete their program.

### GI Bill® benefits

This new program is not yet approved for use with GI Bill® benefits.

GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs. More information about education benefits offered by VA is available at the official U.S. government website at

<https://www.benefits.va.gov/gibill/>.

## At a glance

- **College/School:** [College of Health Solutions](#)
- **Location:** [Downtown Phoenix](#)

## Degree requirements

30 credits and an applied project course (BST 593)

### **Required Core (15 credit hours)**

BST 601 Biostatistical Theory and Inference (3)

BST 602 Applied Multi-level and Longitudinal Data Analysis (3)

BST 604 Computational Biostatistics (3)

BST 605 Biostatistical Data Analysis (3)

BST 606 Applied Clinical Trial Design and Analysis (3)

### **Electives (9 credit hours)**

### **Culminating Experience (6 credit hours)**

BST 593 Applied Project (6)

### **Additional Curriculum Information**

Elective coursework should be selected in consultation with the program advisor.

The applied project will depend upon the student's background and goals for after graduation.

## Admission requirements

Applicants must fulfill the requirements of both the Graduate College and the College of Health Solutions.

Applicants are eligible to apply to the program if they have earned a bachelor's or master's degree in biomedical informatics, demography, mathematics, public or population health, social sciences or statistics from a regionally accredited institution.

Applicants must have a minimum cumulative GPA of 3.00 (scale is 4.00 = "A") in the last 60 hours of their first bachelor's degree program, or applicants must have a minimum cumulative GPA of 3.00 (scale is 4.00 = "A") in an applicable master's degree program.

Applicants are required to submit:

- graduate admissions application and application fee
- official transcripts
- professional resume
- two references (academic or professional)
- statement of purpose
- proof of English proficiency

## Additional Application Information

An applicant whose native language is not English must provide [proof of English proficiency](#) regardless of current residency.

All applicants must have completed and passed an undergraduate statistics course (e.g. HCD 300, STP 226, ECN 221, or PSY 230), a linear algebra course (e.g. MAT 242, MAT 342 or MAT 343), and a calculus course (e.g. MAT 210, MAT 251 or MAT 270) prior to admission. If the requisite coursework is not completed prior to admission, then it must be completed prior to matriculating.

Contact information of two references is required. References will be contacted via email to submit a letter of recommendation. Letters of recommendation are preferably written by instructors, research mentors or supervisors who can speak to the applicant's aptitude for research and graduate-level coursework.

The statement of purpose should be one to two pages that indicate the applicant's interest in the program, knowledge of the field, and career plans. Applicants are encouraged to connect with program faculty who could be potential research mentors and include this information in their statement, if available at the time of application.

## 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.

## Application deadlines

Fall

Spring [expand](#)

[expand](#)

## Career opportunities

Students with a Master of Science in biostatistics can be employed in academic institutions, government agencies and health-related industries. Graduates are well-positioned to support public health needs.

Career opportunities include:

- biostatisticians
- data scientists
- professors
- senior data analysts
- statisticians

These positions are all classified as "Bright Outlook occupations" from the Bureau of Labor Statistics, which is officially defined as the occupations expected to grow rapidly in the next several years with large numbers of job openings. They are new and emerging occupations with potential high salaries.

## Contact information

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