More and more data is generated from internet searching and the use of smartphones, causing projected demand for statisticians to increase 34 percent in the next 10 years. This doctoral program in statistics will train you to analyze this data and help businesses in retail, finance, insurance and other industries make better policy decisions.

Program Description

Degree Awarded: PHD Statistics

As a science, statistics focuses on data collection and data analysis by using theoretical, applied and computational tools. The PhD program in statistics reflects this breadth in tools and considerations while allowing students sufficient flexibility to tailor their program of study to reflect individual interests and goals. Research can be of a disciplinary or transdisciplinary nature.

At a Glance

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

Degree Requirements

84 credit hours, a written comprehensive exam, a prospectus and a dissertation

Required Core (15 credit hours)

- mathematical statistics (3)
- probability (3)
- STP 526 Theory of Statistical Linear Models (3)
- STP 527 Statistical Large Sample Theory (3) or STP 530 Applied Regression Analysis (3) or IEE 578
Regression Analysis (3)
STP 531 Applied Analysis of Variance (3) or IEE 572 Design Engineering Experiments (3)

Electives (45 credit hours)

Research (12 credit hours)
STP 792 Research (12)

Culminating Experience (12 credit hours)
STP 799 Dissertation (12)

Additional Curriculum Information
Electives are to be chosen from statistics or related area courses approved by the student's supervisory committee.

Students must pass:

- one qualifying examination and coursework in analysis
- a written comprehensive examination
- a dissertation prospectus defense

Students should see the department website for examination information.

Each student must write a dissertation and defend it orally in front of five dissertation committee members.

Admission Requirements

Applicants must fulfill the requirements of both the Graduate College and The College of Liberal Arts and Sciences.

Applicants are eligible to apply to the program if they have earned a bachelor's or master's degree in mathematics, statistics or a closely related area, from a regionally accredited institution.

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

All applicants must submit:

1. graduate admission application and application fee
2. official transcripts
3. statement of education and career goals
4. GRE (general) scores
5. three letters of recommendation
6. proof of English proficiency

**Additional Application Information**
An applicant whose native language is not English (regardless of current residency) must provide proof of English proficiency.

Completion of the following courses (equivalents at ASU are given in parentheses) is required. Applicants who lack any of these prerequisite courses must complete the prerequisites before being considered for admission.

- calculus (MAT 270, 271 and 272)
- advanced calculus (MAT 371)
- linear algebra (MAT 342)
- computer programming (CSE 100)
- introductory applied statistics (STP 420)

**Contact Information**

School of Mathematical and Statistical Sciences | WXLR A216
grad.math@asu.edu | 480-965-3951