Statistics, MS

Demand for statisticians is projected to grow 34% during the next decade as use of statistical analysis to make informed business, health care and policy decisions becomes more widespread with the large increase in available data from the internet. Your master's degree in statistics will prepare you to tackle any area of analysis.

Program Description

Degree Awarded: MS Statistics

The MS program in statistics draws upon a wide spectrum of faculty research and teaching interests, including from faculty outside of the school. As a result, plans of study can be transdisciplinary and tailored to reflect students' individual needs and goals.

At a Glance

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

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 (Statistics), BS

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

Degree Requirements
30 credit hours and a portfolio, or
30 credit hours, a thesis and an oral comprehensive exam, or
30 credit hours, a written comprehensive exam and an oral comprehensive exam

**Required Core (3 credit hours)**
STP 540 Computational Statistics (3)

**Theory Courses (6 credit hours)**
STP 421 Probability (3) and STP 427 Mathematical Statistics (3), or
STP 501 Theory of Statistics I: Distribution Theory 3 (3) and STP 502 Theory of Statistics II: Inference (3)

**Applied Linear Statistical Model Courses (3 credit hours)**
ECN 525 Applied Regression Models (3), IEE 578 Regression Analysis (3) or STP 530 Applied Regression Analysis (3)

**Electives and Research (12-18 credit hours)**

**Culminating Experience (0-6 credit hours)**
ECN 599 or IEE 599 or STP 599 Thesis (6)
Oral and written comprehensive exam (0)
Portfolio (0)

**Additional Curriculum Information**
Prerequisites may not be used to complete the 30 credit hours.

The theory courses are fundamental to the education of statisticians and are necessary for more advanced graduate study. Students choose STP 421 and STP 427, or STP 501 and STP 502. Other courses may be used with approval of the academic unit.

For the applied linear statistical model courses, students must choose from ECN 525, IEE 578 or STP 530. Other courses may be used with approval of the academic unit.

The thesis must be defended at an oral examination. The thesis must conform to the Graduate College format requirements.

The remaining credit hours come from elective and research courses chosen by the student with the approval of supervising faculty. A maximum of six credit hours may be chosen from a related field on which statistics relies or in which statistics is an essential tool. A maximum of six research credit hours can be used. Students may also include internship coursework as part of their electives.

**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 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.

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 Curriculum Information**

An applicant whose native language is not English must provide proof of English proficiency regardless of current residency.

Applicants should have completed the following courses (equivalents at ASU are given in parentheses), and applicants who lack any of these prerequisite courses must complete the prerequisites before being considered for admission:

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

**Contact Information**

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