Statistics, MS

GCSTATMS

Spring semester admission is limited to students in the accelerated master's program.

Do you have the innate ability to examine patterns in data and interpret the stories being told? Learn how to use equations, predictive modeling and computation to analyze data and make it meaningful for use in business, science and technology.

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 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

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 plus master's degree with:

Mathematics (Statistics), BS

Acceptance to the graduate program requires a separate application. Students typically receive approval to pursue the accelerated master's during the junior year of their bachelor's degree program. Interested students can learn about eligibility requirements and how to apply.

Degree requirements

30 credit hours and a portfolio - Professional Track, or
30 credit hours including a thesis - Academic Track, or
30 credit hours including the required applied project course (STP 593) - Academic Track, or
30 credit hours, a written comprehensive exam and an oral comprehensive exam - Academic Track

Required Core (3 credit hours)
ECN 525 Applied Regression Models (3) or
IEE 578 Regression Analysis (3) or
STP 530 Applied Regression Analysis (3)

Track Coursework (9 or 12 credit hours)

Electives (9-18 credit hours)

Culminating Experience (0-6 credit hours)
ECN 599 or IEE 599 or STP 599 Thesis (6)
STP 593 Applied Project (3)
oral and written comprehensive exam (0)
portfolio (0)

Additional Curriculum Information
Students in the Master of Science program in statistics are required to select one of the two available tracks: the academic track or the professional track. Students should speak with their advisor regarding the selection of a track and elective coursework based on the target career.

Students in the professional track complete the portfolio culminating experience, and students in the academic track choose from an applied project, thesis or comprehensive exams.

Prerequisites may not be used to complete the 30 credit hours required for the degree.

Students who select the thesis or applied project option must defend it through an oral examination. The thesis must conform to the Graduate College format requirements.

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 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. three letters of recommendation
5. proof of English proficiency

Additional Curriculum Information

An applicant whose native language is not English must provide proof of English proficiency regardless of their 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 them 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)

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

Program learning outcomes

Program learning outcomes identify what a student will learn or be able to do upon completion of their program. This program has the following program outcomes:

- Evaluate statistical approaches to problem solving using the underlying theory of advanced statistical methods.
- Apply advanced statistical methods to analyze data.

- Apply advanced statistical skills to real world problems.

Career opportunities

Statistical analysis and data mining have been identified as two of the most desirable skills in today's job market.

Graduates with a master's degree in statistics can pursue a broad variety of careers in fields as diverse as business, finance, engineering, technology, education, marketing, government and other areas of the economy. These are just a few of the top career opportunities:

- actuary
- business consultant or analyst
- data scientist
- financial analyst
- market research analyst
- software engineer
- statistician

This program also provides preparation for students interested in doctoral study and a faculty-track academic career.

Contact information

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