

APPLIED STATISTICS, M.A.S.

The M.A.S. degree is geared toward persons who are currently working in a business, government, educational or industrial setting. While some theory is introduced, the focus is on applications of statistics and, in particular, how statistics can be used to improve quality in an organization or process.

Admission to the M.A.S. degree program requires a GRE quantitative score of at least 550 and a GRE verbal score of at least 400, or a comparable GMAT score, and at least two semesters of calculus with a 3.00 or higher GPA. The successful candidate will also have a cumulative undergraduate/graduate GPA of 3.0 or higher and two letters of recommendation.

Learning Outcomes

1. The MAS degree recipient should be able to apply and interpret general statistical methods, including their implementation in standard statistical packages.
2. The MAS recipient should have a solid knowledge of basic mathematical statistics at the level needed to understand and apply general statistical methods. Specifically, at least 90% should meet or exceed expectations as specified in the rubrics.
3. The MAS recipient should have the writing ability to successfully explain on paper standard statistical methods and analyses.

Degree Requirements (30 Hours)

The degree requires at least 30 semester hours of approved course work built around a core of five courses:

Core Courses

| Course | Title | Credits |
|---------------------------|---------------------------------------|-----------|
| STAT 700 | Applied Statistics I | 3 |
| STAT 701 | Applied Statistics II | 3 |
| STAT 702 | Introduction to Statistical Theory I | 3 |
| STAT 703 | Introduction to Statistical Theory II | 3 |
| STAT 540 | Computing in Statistics | 3 |
| Total Credit Hours | | 15 |

Electives

- The remaining 15 hours will consist of elective courses, of which at least 3 semester hours are at the 700-level. No more than 9 semester hours may be taken outside the STAT designator.

Two-Part Comprehensive Exam

In addition to the 30 semester hours of course work, the MAS student must pass a two-part comprehensive exam. Part I is applied in nature and is based on required courses STAT 700-STAT 701. Part II is more theoretical and is based on required courses STAT 702-STAT 703. The two parts may be taken together or separately.