Master of Science in Applied Statistics

Admission Requirements

The applicant must meet the School of Graduate Studies' current minimum general admission requirements as published in the graduate catalog. The program-specific requirements for MS in Applied Statistics include:

Students must have the coursework equivalent to MATH 165 Calculus I, MATH 166 Calculus II, MATH 265 Calculus III, MATH 207 Introduction to Linear Algebra, MATH 321 Applied Statistical Methods, and have computer programming experience at a level of CSCI 130 Introduction to Scientific Programming or higher. Coursework equivalent to MATH 421 Statistical Theory I and MATH 422 Statistical Theory II is recommended. If not, these courses would be required during the first year of the program.

MS in Applied Statistics Degree Requirements

1. Thirty-three credits including two credits satisfied by one of the following: Stat 997 Independent Study or Stat 994 Internship
2. A minimum of 21 credits, including independent study or internship credits, must be in the major field of statistics.
3. A minor field of study may be obtained by completing 9 semester credits from another department that offers a graduate program. Course choices must be approved by the Department of Mathematics for a minor.
4. A cognate may be obtained by completing 9 semester credits from more than one department outside of statistics, or from a single department that does not offer a graduate program. Course choices for a cognate must be approved by the Department of Mathematics.
5. At least 21 of the credits must be at or above the 500-level.
6. A maximum of 9 credit hours required for the degree may be transferred from another institution.
7. Preparation of a written independent study approved by the faculty advisor or written report summarizing internship experience.
8. Successful completion of a comprehensive final examination on two general areas approved by the candidate's faculty advisor.

Code	Title	Credits
Required Courses Category I: (If not taken prior to entering the MS in Applied Statistics program.)		**0-6**
MATH 421	Statistical Theory I	3
MATH 422	Statistical Theory II	3
Required Courses Category II:		**6**
STAT 500	Computing for Statistics	1
STAT 541	Linear Statistical Models	3
STAT 997	Independent Study	2
Elective Courses: (at least 15 credits at 500 level or above)		**21-27**
STAT 542	Advanced Topics in Statistics and Probability May be repeated for up to 12 credits provided different topics are covered.	3
STAT 543	Design of Experiments	3
STAT 545	Multivariate Statistics	3
STAT 547	Time Series	3
STAT 551	Statistical Graphics	3
STAT 553	Modern Nonparametric Statistics	3
STAT 555	Applied Bayesian Statistics	3
MATH 416	Topics in Statistics May be repeated for up to 12 credits provided different topics are covered.	3
MATH 442	Linear Algebra If not taken as part of undergraduate degree.	3
MATH 460	Mathematical Modeling If approved by the Department of Mathematics.	3
Non-departmental Courses (as approved by the Mathematics department)		**0-6**