STATISTICAL SCIENCE (M.S.)

Master of Science. Major in Statistical Science.

Students seeking admission to the MS program in Statistical Science should have completed at least two semesters in college calculus comparable to MATH 1170 and MATH 1750, and two classes in applied statistics including STAT 4310 or a comparable course. Familiarity with programming is expected, and familiarity with numerical or statistical computing environments is desirable. Students are not required to have an undergraduate degree in statistics.

In addition to the general university requirements for an MS degree, the program requires 30 credits in statistics or supporting courses, and a thesis or internship. A maximum of 6 credits of STAT 5000 or STAT 5980 may be counted toward this total. See the Department of Mathematics and Statistical Science graduate student handbook for details and program requirements for earning the MS in Statistical Science.

- 1. The student will be able to perform common tasks such as reading in data, performing data management, and performing routine statistical analyses using statistical software such as SAS and/or R.
- 2. The student can apply results from probability theory and the theory of statistical inference.
- The student will be able to communicate statistical methods and information from analyses clearly and effectively both orally and in written form.
- The student will be able to apply statistical knowledge to real life problems effectively and ethically, understanding the theoretical assumptions and practical limitations of the methodologies applied.