CORE COURSES FOR THE MASTER OF SCIENCE IN STATISTICS PROGRAM

The following six courses are required (with a B or better) for the degree:

- SSC 384.2 *Mathematical Statistics I*
- SSC 384.3 *Mathematical Statistics II*
- SSC 384.4 *Regression Analysis*
- SSC 384.6 *Design and Analysis of Experiments*
- SSC 384.7 *Bayesian Statistical Methods*
- SSC 388 *Consulting Seminar*

Please note:

- *Mathematical Statistics I, Analysis of Variance, and Regression Analysis* can be taken in any order.
- *Mathematical Statistics I, Regression Analysis, and Consulting Seminar* are offered only in the Fall semester.
- *Mathematical Statistics II* and *Design and Analysis of Experiments* are offered only in the Spring semester.
- Each of the courses has prerequisites.
- Other courses with the same or similar name (or even using the same textbook) might not be equivalent courses.

Prerequisites:

- For *Mathematical Statistics I*: M 362K (Probability I) and M 378K (Introduction to Mathematical Statistics) or the equivalent.
- For *Mathematical Statistics II*: SSC 384.2 (Mathematical Statistics I)
- For *Design and Analysis of Experiments*: M 378K or M 358K or equivalent upper division undergraduate or graduate statistics course with a probability prerequisite.
- For *Regression Analysis*: M 378K or M 358K or equivalent upper division undergraduate or graduate statistics course with a probability prerequisite. Some familiarity with linear
algebra (e.g., multiplying matrices, understanding matrix inverses, linear dependence and independence) is also required.

• For Bayesian Statistical Methods: M 362K, M378K, and SSC 382
• Please note that the prerequisite for Mathematical Statistics I is stronger than that for Analysis of Variance and Regression Analysis. Thus a student who enters the program without an undergraduate course in mathematical statistics should take M 378K the first semester and delay taking Mathematical Statistics I until M 378k has been completed.