

**Student Learning Outcomes for the M.S. degree in Statistics
at Kansas State University**

Graduates of the Master of Science degree in Statistics will have demonstrated:

1. an understanding of fundamental ideas of statistical theory
2. an understanding of fundamental ideas of linear model theory
3. the ability to link theory and applications
4. the ability to draw parallels between different kinds of statistical methods
5. the ability to investigate and implement new statistical methods
6. an understanding of fundamental ideas of study design
7. statistical computing skills / ability to use at least one statistical software package
8. An understanding of practical application of statistics to real problems
9. an understanding of the research process / scientific method
10. the ability to work and communicate with researchers in other disciplines
11. public speaking and presentation skills
12. report-writing skills
13. the ability to use graphical methods to display and interpret information
14. the ability to use spreadsheets, word processors, and graphics packages.