STAT 653 Learning Outcomes

• Students will be able to understand theoretical and applied principles of statistics with adequate preparation to research.

• Students will frame problems using multiple mathematical and statistical representations of relevant structures and relationships and solve using standard and advance techniques.

• Students will create quantitative models to solve real world problems in appropriate contexts.

• Students will effectively use professional level technology tools to support the study of statistics.

• Students will clearly communicate quantitative ideas both orally and in writing to a range of audiences.

• Students will demonstrate their ability to apply statistics in other fields at an appropriate level and demonstrate their ability to apply knowledge acquired from their major to real world models.

• Students will demonstrate mastery of data analysis and statistical concepts by communicating critically reasoned analysis through written and oral presentations.

• Students will acquire up-to-date skills and/or applications of computer and statistical programming related to future career choices.

• Students will be able to read, interpret, and critically analyze journal articles.

• Students will demonstrate the ability to creatively use statistical methods to solve real-world problems.

• Students will demonstratethe ability to work in teamsand peer review the presentations and written documents.