

MS in Applied Statistics and Data Science

Program Learning Outcomes

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Students who successfully complete this program shall be able to:

1. Master fundamental probability models and the statistical theory and methodology required to draw appropriate inferences from data.
2. Demonstrate the ability to analyze data by appropriately fitting, assessing, and interpreting a variety of statistical models in real-world interdisciplinary problems.
3. Employ appropriate statistical software for the management and analysis of data.
4. Communicate the results of statistical analyses effectively both orally and in writing to a broad audience.
5. Critically assess the appropriateness and validity of the statistical applications and methodology involved in published studies.
6. Effectively function in an interdisciplinary collaborative environment using the skills of a professional statistician to support decision making.
7. Articulate ethical issues in data analysis and how Christian perspectives relate to the profession of statistics.