Student Learning Outcomes for the B.S. in Statistics

The Statistics major is a designated capstone major. Undergraduate students work in small groups to solve problems posed by real community-based or campus-based clients. The experience gives students an opportunity to put into practice concepts and ideas that otherwise might remain theoretical and/or abstract and to synthesize the many topics they have studied. Students will:

- clearly communicate statistical results, verbally and in writing, to both a non-technical audience and to peers.

- successfully restate investigative questions in terms of a statistical model or approach.

- demonstrate the ability to find appropriate research literature appropriate to the investigative task.

- successfully perform a statistical investigation that includes any or all of these steps:
  
  -- design appropriate data-collection methods
  -- critique validity of previously collected data
  -- analyze data and interpret results to further the statistical investigation
  -- successfully utilize software to manage, clean, and analyze data
  -- compare and communicate the validity of statistical models
  -- understand and explain the importance of reproducible analyses and create reproducible analyses