

UCLA

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