



University of California, Santa Barbara
Program Learning Outcomes

B.A. in Statistical Science

Students graduating with a B.A. in Statistical Science should be able to:

1. Demonstrate a working knowledge of the core concepts in probability and statistics. In particular,
 - i. Use basic mathematical skills needed for probability and statistics.
 - ii. Employ the basic computer skills used in statistics.
 - iii. Explain the fundamentals of probability theory and its role in the construction of modern statistical theory.
 - iv. Draw on a strong foundation in statistical reasoning and inferential methods.
 - v. Describe, interpret and conduct an exploratory analysis of data by graphical and other means.
 - vi. Use some statistical programming packages.
2. Communicate statistical results effectively. Students will understand that statistical concepts are applied to many fields.
3. Use statistical reasoning and inferential methods.
4. Combine statistical modeling concepts with computational skills to analyze data.