

University of Minnesota Morris Digital Well

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Assessment of Student Learning Reports

Assessment of Student Learning Committee  
(Inactive)

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Spring 2017

### Statistics Discipline Assessment PSLO's Spring 2017

Statistics Discipline

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## Statistics Program: Student Learning Objectives and Expected Outcomes

| Student Learning Objective   | Learning Outcome  |
|--|---|
| Students will gain the ability to make contributions to society through knowledge of statistical theory and statistics applied to other disciplines. | <ul style="list-style-type: none"> <li>• Model and solve real-world problems by analyzing them statistically, and determine an appropriate approach towards its solution.</li> <li>• Write, read, and construct proofs of key statistical ideas.</li> </ul> |
| Students will sharpen their ability to extract useful information from data.   | Create estimated models, data displays, and new datasets to address problems using computing tools.   |
| Students will be able to demonstrate an understanding of the mathematical foundations of statistical theory and methods.                             | Demonstrate basic knowledge of calculus, analysis, linear algebra, probability, and describe their importance to statistics.  |
| Students will be prepared to enter graduate school, and pursue careers in applied statistics.  | <ul style="list-style-type: none"> <li>• Demonstrate students have background to be employed or gain admission to graduate school.</li> <li>• Meet the requirements for employment in professions such as actuarial science and data science.</li> </ul>    |
| Students will be able to communicate statistical ideas and results effectively using presentation skills and visualizations.                         | Describe and explain a theorem, statistical model, and results of a statistical analysis to a non-specialist audience.  |