

**Spokane Falls Community College**  
**COURSE LEARNING OUTCOMES**

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**Prefix and Course Number:** Math&146  
**Course Title:** Introduction to Statistics  
**Version Date:** 04/12/2019

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**Course Learning Outcomes**

Upon successful completion of the course, the student will be able to:

1. Utilize the scientific method within the study of statistics, including identifying populations, constructing samples, and discussion bias
2. Make use of exploratory data analysis using graphical displays of data and summary statistics for quantitative data
3. Explain relationships between two variables using scatter diagrams, correlation, and least-squares regression
4. Evaluate basic probability computations
5. Construct basic probability distributions for discrete and continuous random variables such as the normal and binomial distributions
6. Estimate means, proportions, and standard deviations for distributions of sample data
7. Construct and Interpret confidence intervals and hypothesis tests