

COURSE LEARNING OUTCOMES (CLO)

Spokane Community College Course Learning Outcomes and Outline

Course Title: Intermediate Algebra for Statistics

Prefix and Course Number: MATH 46

Course Learning Outcomes

By the end of this course, a student should be able to:

- Represent and interpret functions in the form of tables, graphs and equations with the focus of input/output and domain/range as it relates to explanatory and response variables. Interpret features of linear functions, including slope, intercepts, and slope-intercept form.
- Translate between and interpret inequalities presented with words, symbols, and portions of the number line. This includes statements such as $P(X < a)$ related to probability distributions.
- Use technology to perform computations, construct graphs, and complete statistical tasks involving lists of data and probability distributions.
- Represent numbers in equivalent forms, including decimal representations, percentages, and ratios. Recognize place value in the form of a power of ten, interpret numbers in scientific notation, as well as convert between scientific notation and standard form. Evaluate expressions using order of operations.
- Use techniques that improve the learning of statistics. (This could include reading strategies, notetaking, study groups, organization, time management, etc.)

Course Outline

1. Fundamentals of Decimals, Fractions, Percent, Proportions
2. Algebraic expressions
3. Functions
4. Sets
5. Technology