Spokane Community College
COURSE LEARNING OUTCOMES (CLO) AND OUTLINE

Course Title:
Prefix and Course Number:
Version Date:

Course Learning Outcomes

MATH 88

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

1. Calculate descriptive statistics and construct graphical displays of summaries of data.
2. Convert units of measure and use in application problems.
3. Simplify exponential expressions that involve integer exponents.
4. Solve real-world direct variation problems through the application of equations, tables, and graphs.
5. Create and graph linear, quadratic, and exponential functions to model real-world situations using appropriate technologies.
6. Write the equation of a line from various pieces of information and illustrate it graphically.
7. Utilize the equation of a trendline for making accurate predictions.

Course Outline:
Statistics:
- Mean, Median, mode, weighted means.
- Scatterplots and line of best fit.
- Standard deviation.
- Graphical displays.

Numbers & Units:
- American units of measure for length, weight, and volume.
- Metric units of measure for length, weight, and volume.
- Scientific notation & standard notation.
- Exponent rules/negative exponents.

Lines:
- Positive /negative linear correlation.
- Trend lines.
- Slope and intercepts
- Equations of lines.
- Direct variations.
- Graphs, tables, and equations.
- Systems of linear equations (optional).

Functions
- Function graphs.
- Inputs/outputs and function notation
- Linear functions and models.
- Quadratic models
- Exponential functions and models.