EXAMPLE STUDENT LEARNING OUTCOMES
FOR MATH 130 (Elementary Algebra)

Creative, Critical, and Analytical Thinking

OUTCOME: Analyze the linear relationship between two quantities as it relates to slope

RATIONALE: for the purpose of using slope to solve many types of application problems

ASSESSMENT: as demonstrated by classroom discussion/presentation, homework assignments, and exams

OUTCOME: Formulate a general strategy to factoring polynomials that can be used to completely factor polynomials by applying the appropriate methods of factoring, including greatest common factor, grouping, difference of two squares, sum and difference of two cubes, trinomial to the product of two binomials, and combinations of these methods

RATIONALE: for the purpose of representing expressions as products as well as solve equations

ASSESSMENT: as demonstrated by classroom discussion/presentation, homework assignments, and exams

OUTCOME: Critically examine and describe situations involving direct and inverse variation models

RATIONALE: for the purpose of making real-world predictions

ASSESSMENT: as demonstrated by classroom discussion/presentation, homework assignments, and exams
Note: When writing a student learning outcome under the Creative, Critical, and Analytical Thinking category (as opposed to other categories such as computation, communication, etc.), the verb that starts the outcome must be relatively strong because the student is undergoing critical analysis. For example, verbs such as analyze, formulate and examine were used for the SLOs in the Creative, Critical, and Analytical Thinking category above. But, relatively weaker verbs are used for the Computation category below (demonstrate and develop).

Computation

OUTCOME: Demonstrate an understanding of how to graph linear equations and inequalities in two variables by plotting several points, by determining the intercepts, or by determining the slope and a point on the line

RATIONALE: for the purpose of creating a graphic representation of data

ASSESSMENT: through classroom discussion/presentation, homework assignments, and exams

OUTCOME: Develop an understanding of how to compute function values

RATIONALE: for the purpose of evaluating a function value for given inputs by using rules for the order of operations

ASSESSMENT: as demonstrated by classroom discussion/presentation, homework assignments, and exams

A comprehensive list of verbs that can be used at the start of each outcome statement can be found at

http://www2.bc.cc.ca.us/tl/3Domains.htm