## QUANTITATIVE LITERACY VALUE RUBRIC

## **Competency 3**

## **Definition**

Quantitative Literacy (QL) – also known as Numeracy or Quantitative Reasoning (QR) – is a "habit of mind," competency, and comfort in working with numerical data. Individuals with strong QL skills possess the ability to reason and solve quantitative problems from a wide array of authentic contexts and everyday life situations. They understand and can create sophisticated arguments supported by quantitative evidence and they can clearly communicate those arguments in a variety of formats (using words, tables, graphs, mathematical equations, etc., as appropriate).

Evaluators are encouraged to assign a zero to any work sample or collection of work that does not meet benchmark (cell one) level performance.

	4 Advanced	3 Intermediate- High	2 Intermediate - Low	1 Novice	0 Student did not perform this element	N/A Assignment did not require or assess this element
Ability to explain information presented in mathematical forms (e.g., equations, graphs, diagrams,	explanations of information presented in mathematical forms. Makes appropriate inferences based on that information. For	explanations of information presented in mathematical forms. For instance, accurately explains the	Provides somewhat accurate explanations of information presented in mathematical forms, but occasionally makes minor errors related to computations or units. For instance, accurately explains trend data shown in a graph, but may miscalculate the slope of the trend line.	Attempts to explain information presented in mathematical forms, but draws incorrect conclusions about what the information means. For example, attempts to explain the trend data shown in a graph, but will frequently misinterpret the nature of that trend, perhaps by confusing positive and negative trends.		
appropriate	analysis of data as the basis for deep and thoughtful judgments, drawing insightful,	reasonable and	Uses the quantitative analysis of data as the basis for workmanlike (without inspiration or nuance, ordinary) judgments, drawing plausible conclusions from this work.	Uses the quantitative analysis of data as the basis for tentative, basic judgments, although is hesitant or uncertain about drawing conclusions from this work.		

on the quantitative analysis of data, while recognizing the limits of this analysis		conclusions from this work.			
evidence in support of the argument or purpose of the work (in terms of what	information in connection with the argument or purpose of the work, presents it in an effective format, and explicates it with consistently high quality.	information in connection with the argument or purpose of the work, though data may be presented in a less than completely	but does not effectively connect it to the argument or purpose of the work.		

Overall, has this student demonstrated competent quantitative literacy for a course at this level in the discipline? Yes or no?

This work is based on the AAC&U Value Rubrics.