Core Goal 4 Quantitative Literacy Rubric (Modified From AAC&U Quantitative Literacy Rubric)

	4 Exceeds Expectations	3 Meets	2 Meets	1 Does Not Meet	Not Attempted
Interpretation Ability to explain information presented in mathematical forms (e.g., equations, graphs, diagrams, tables, words)	 Provides accurate explanations of information presented in mathematical forms. Makes appropriate inferences based on that information. For example, accurately explains the trend data shown in a graph and makes reasonable interpolations/extrapolations in context 	Provides accurate explanations of information presented in mathematical forms. For instance, accurately explains the trend data shown in a graph.	Provides somewhat accurate explanations of information presented in mathematical forms, but 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	Expectations • 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 misinterprets the nature of that trend, perhaps by confusing positive and negative trends.	
Representation and Assumptions Ability to convert relevant information into various mathematical forms (e.g., equations, graphs, diagrams, tables, words) Ability to make and evaluate important assumptions in estimation, modeling, and data analysis	Skillfully converts relevant information into an insightful mathematical portrayal in a way that contributes to a further or deeper understanding Demonstrates awareness of appropriate assumptions. Shows awareness that confidence in final conclusions is limited by the accuracy of the assumptions.	Competently converts relevant information into an appropriate and desired mathematical portrayal Demonstrates awareness of appropriate assumptions.	 Completes conversion of information but resulting mathematical portrayal is only partially appropriate or accurate. Demonstrates awareness of assumptions. 	 Completes conversion of information but resulting mathematical portrayal is inappropriate or inaccurate. Demonstrates incomplete awareness of assumptions. 	

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Calculation	All Calculations attempted are successful and sufficiently comprehensive to solve the problem. Calculations are presented clearly and concisely.	Calculations attempted are essentially all successful and sufficiently comprehensive to solve the problem.	Most calculations are successful but there are significant errors, or represent only a portion of the calculations required to comprehensively solve the problem.	Calculations are attempted but most are either unsuccessful or are not comprehensive.
Application / Analysis Ability to make judgments and draw appropriate conclusions based on the quantitative analysis of data, while recognizing the limits of this analysis	Uses the quantitative analysis of data as the basis for deep and thoughtful judgments, drawing insightful and appropriately qualified conclusions from this work.	Uses the quantitative analysis of data as the basis for competent judgments, drawing reasonable and appropriately qualified conclusions from this work.	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.
Communication Expressing quantitative evidence in support of the argument or purpose of the work	Uses quantitative information in connection with the argument or purpose of the work, presents it in an effective format, and explicates it with consistently high quality.	Uses quantitative information in connection with the argument or purpose of the work, though data may be presented in a less than completely effective format or some parts of the explication may be uneven.	Uses quantitative information, but the connection to the argument/purpose is significantly flawed.	Presents an argument for which quantitative evidence is pertinent, but does not provide adequate explicit numerical support. (May use quasiquantitative words such as "many," "few," "increasing," "small," and the like in place of actual quantities.)

Notes on changes: