

Quantitative Literacy: Students will be able to comprehend, create and communicate arguments supported by quantitative evidence.

	Accomplished (4)	Proficient (3)	Developing (2)	Novice (1)
Comprehend <i>Ability to explain information presented in mathematical forms (e.g., equations, graphs, diagrams, tables, words)</i>	Provides accurate explanations of information presented in mathematical forms. Makes appropriate inferences based on that information.	Provides accurate explanations of information presented in mathematical forms.	Provides somewhat accurate explanations of information presented in mathematical forms, but occasionally makes minor errors related to computation or units.	Attempts to explain information presented in mathematical forms, but draws incorrect conclusions about what the information means.
Create <i>Ability to convert relevant information into various mathematical forms (e.g., equations, graphs, diagrams, tables, words)</i>	Skillfully converts relevant information into an insightful mathematical portrayal in a way that contributes to deeper understanding.	Competently converts relevant information into an appropriate and desired mathematical portrayal.	Completes conversion of information but resulting mathematical portrayal is only partially appropriate or accurate.	Completes conversion of information but resulting mathematical portrayal is inappropriate or inaccurate.
Communicate <i>Ability to make judgments and draw appropriate conclusions based on the quantitative analysis of data, while recognizing the limits of this analysis</i>	Uses the quantitative analysis of data as a basis for deep and thoughtful judgments, drawing insightful, carefully qualified conclusions from this work.	Uses the quantitative analysis of data as a basis for competent judgments, drawing reasonable and appropriately qualified conclusions from this work.	Uses the quantitative analysis of data as a basis for workmanlike (without inspiration or nuance; ordinary) judgments, drawing plausible conclusions from this work.	Uses the quantitative analysis of data as a basis for tentative, basic judgments, although is hesitant or uncertain about drawing conclusions from this work.
Evaluate <i>Ability to make and evaluate important assumptions in estimation, modeling, and data analysis</i>	Explicitly describes assumptions and provides compelling rationale for why each assumption is appropriate. Shows awareness that confidence in final conclusions is limited by the accuracy of the assumptions.	Explicitly describes assumptions and provides compelling rationale for why assumptions are appropriate.	Explicitly describes assumptions.	Attempts to describe assumptions.
Written Communication	Student uses elegant language that skillfully communicates meaning to readers with clarity and fluency, and is virtually error-free.	Student uses straightforward language that generally conveys meaning to readers. The language in the paper has few errors.	Student uses language that generally conveys meaning to readers with clarity, although writing may include some errors.	Student uses language that sometimes impedes meaning because of errors in usage.