

Appendix II: Quantitative Analysis Rubric

Goal 2c Student demonstrates the ability to collect and analyze quantitative data. Student should have a clear hypothesis, collect appropriate data, specify their variables, interpret and present their results.

Definition	Inadequate (1)	Needs Work (2)	Meets Expectations (3)	Exceeds expectations (4)
Developing Hypotheses: Student states a clear and testable hypothesis and explains why it is plausible.	Student's hypothesis is not clear or is not testable.	Student's hypothesis is vague or not well explained.	Student's hypothesis is clear, testable and some justification for it is given.	Student's hypothesis is clear, testable, justification for it is given. The hypothesis is thoughtful and original.
Research methodology and analysis. Student uses an appropriate research design and explains data, independent and dependent variables.	Research methodology and data are not clearly explained. Variables are not well specified or inappropriate.	Explanations of research methodology, data, and variables are uneven. Some parts are explained well others are not.	Research methodology, data and variables are clearly explained.	Research methodology, data collection , and variables are clearly explained. The design and variables are thoughtful and original.
Interpretation and presentation of results: Student presents and interprets the results by explaining how it is linked to their hypotheses.	The results of the research are presented or explained incorrectly.	The results are not explained completely or are presented inappropriately. Student does not understand some parts of the analysis.	The results are explained and presented well. Student demonstrates understanding of the research methods used.	The results are explained and student demonstrates understanding of the research methods used. Student discusses strengths and limitations of the design.