Final Project: Rubric

Final Project	4 = Complete	3 = Substantial	2 = Developing	1 = Minimal
Introduction	• Describes the context of the research • Has a clearly stated question of interest • Clearly defines the parameter of interest and states correct hypotheses • Question of interest is of appropriate difficulty	• Introduces the context of the research and has a specific question of interest • Has correct parameter/ hypotheses OR has appropriate difficulty	• Introduces the context of the research and has a specific question of interest OR has question of interest and hypotheses	• Briefly describes the context of the research
Data Collection	• Method of data collection is clearly described • Includes appropriate randomization • Describes efforts to reduce bias, variability, confounding • Quantity of data collected is appropriate	• Method of data collection is clearly described • Some effort is made to incorporate principles of good data collection • Quantity of data is appropriate	• Method of data collection is described • Some effort is made to incorporate principles of good data collection	• Some evidence of data collection
Graphs and Summary Statistics	• Appropriate graphs are included • Graphs are neat, clearly labeled, and easy to compare • Appropriate summary statistics are included • Evidence for Ha and two explanations are provided	• Appropriate graphs and summary statistics are included • Graphs are neat, clearly labeled, and easy to compare or evidence for Ha is provided and discussed	• Graphs and summary statistics are included	• Graphs or summary statistics are included
Analysis	• Correct inference procedure is chosen • Use of inference procedure is justified • Test statistic, P-value and confidence interval are calculated correctly • P-value and confidence interval are interpreted correctly	• Correct inference procedure is chosen • Lacks justification, lacks interpretation, or makes a calculation error	• Correct inference procedure is chosen • Some calculations or interpretations are correct	• Inference procedure is attempted
Conclusions	• Uses P-value to correctly answer question of interest • Discusses what inferences are appropriate based on study design • Shows good evidence of critical reflection (discusses possible errors, limitations, etc.)	• Makes a correct conclusion • Discusses what inferences are appropriate • Shows some evidence of critical reflection	• Makes a partially correct conclusion (such as accepting null). • Shows some evidence of critical reflection	• Makes a conclusion
Overall Presentation/ Communication	• Clear, holistic understanding of the project • Poster is well organized, easy to read, and visually appealing • Statistical vocabulary is used correctly • Oral presentation is organized	• Clear, holistic understanding of the project • Statistical vocabulary is used correctly • Poster or oral is unorganized or has other problems	• Poster is not well done or communication is poor	• Communication and organization are very poor

Note: A score of 0 is possible in each category.

Math Medic