

ANOVA Application and Interpretation Scoring Guide

Due Date: End of Week 8

Percentage of Course Grade: 20%.

CRITERIA	NON-PERFORMANCE	BASIC	PROFICIENT	DISTINGUISHED
Articulate the data analysis plan. 10%	Does not articulate the data analysis plan.	Insufficiently articulates the data analysis plan and/or contains some errors of logic and/or application.	Accurately and logically articulates the data analysis plan.	Accurately articulates the data analysis plan. The data analysis plan is well justified, logical, and thorough.
Analyze statistical assumptions. 20%	Does not analyze statistical assumptions.	Incorrectly analyzes statistical assumptions and/or contains some errors of logic and/or application.	Accurately analyzes statistical assumptions.	Accurately analyzes statistical assumptions. Statistical assumptions are thoroughly evaluated and assessed.
Interpret statistical results and hypotheses. 30%	Does not interpret statistical results and hypotheses.	Incorrectly interprets statistical results and hypotheses and/or contains some errors of logic and/or application.	Accurately interprets statistical results and hypotheses.	Accurately interprets statistical results and hypotheses. Statistical results are thoroughly evaluated and assessed.
Explain statistical conclusions, the limitations of the test, and possible alternative explanations. 15%	Does not explain statistical conclusions, the limitations of the test, and possible alternative explanations.	Insufficiently explains statistical conclusions, the limitations of the test, and possible alternative explanations and/or contains some errors of logic and/or application.	Logically and accurately explains statistical conclusions, the limitations of the test, and possible alternative explanations.	Statistical conclusions, the limitations of the test, and possible alternative explanations are logical and thoroughly evaluated.
Analyze the potential applications of the test in the field and their implications. 15%	Does not analyze the potential applications of the test in the field and their implications.	Incorrectly analyzes potential applications of the test in the field and their implications; are not well discussed or contain some errors in logic.	Analyzes the potential applications of the test in the field and their implications.	Thoroughly analyzes the potential applications of the test in the field and their implications.
Communicate in a manner that is scholarly, professional, and adheres to APA style and formatting. 10%	Does not communicate in a manner that is scholarly, professional, and adheres to APA style and formatting.	Inconsistently communicates in a manner that is scholarly, professional, and adheres to APA style and formatting.	Communicates in a manner that is scholarly, professional, and adheres to APA style and formatting.	Exhibits strict and nearly flawless adherence to organizational, professional, and scholarly writing standards, including APA style and formatting.