Statistics 467/567: Applied Multivariate Analysis – Lynn A. Agre, MPH, PhD - Summer 2020

Bivariate - Multivariate Analysis Final Paper No. 2 GRADING ELEMENTS	POINTS
TIMELINESS	
Bivariate and multivariate analysis report submitted by deadline	5
ORGANIZATION	
Paper includes title page; all subheadings; pages are numbered	2
Paper (written narrative) is between 15-20 pages (excluding tables, charts and references)	3
ABSTRACT	
Introduction briefly summarizes study/ **distinguishes previous findings from current results**	5
INTRODUCTION: BRIEF LITERATURE REVIEW	
Literature review is relevant to statistical methods applied	2
Literature is from peer-reviewed academic journals, not just general media (website reports; newspapers, etc.)	5
Revised three hypotheses include bivariate and multivariate methods	3
METHODS	
Choice of bi-variate statistics clearly explained (correlation, cross-tabulation, chi-square; 2-way contingency table and ANOVA)	5
Select two multivariate methods and describe why chosen and why being compared (how do both methods reinforce the hypotheses being tested). Note: Linear Regression required (optional: Logistic Regression or GLM) plus two classification methods including Factor Analysis, Discriminant Analysis, & Cluster Analysis	5
Methods are suitable for the data and based on evidence from the literature	5
RESULTS	
Results are clearly described, pertinent to methods specific to the hypotheses (research questions)	5
Appropriate recommendations are made regarding subsequent research analysis based on methods	3
RESULTS: TABLES AND GRAPHS or Figures	
Tables, graphs and figures are numbered, contains title, and is in proper format (2 pts. Each)	10
Tables, graphs and figures are referred to in the body of paper by number	5
CONCLUSION	
Explain how methods applied to the data extend literature (body of knowledge)	5
Based on type and univariate and bivariate results, why are these multivariate statistical applications used	5
Broader impact of the study, implications for analysis and policy implementation in other disciplines	3
Possible limitations of study discussed briefly	4
REFERENCES: ACADEMIC INTEGRITY AND QUALITY	
Source material properly paraphrased and/or cited and referenced in APA style.	10
Prose quality (complete sentences, student's own words, punctuation and spelling)	10
TOTAL maximum score	100