

AMDM Culminating Research Project Rubric

What should be included?	Points Possible	Points Received
<p style="text-align: center;">Project is Completely Explained</p> <ul style="list-style-type: none"> • State your BIG research question (this is what your study is about) • Include a null and alternative hypothesis and use mathematical symbols to restate the hypotheses. • State the population of interest. • Explain how you insured that the Ethical Principles and Guidelines were used to protect your participants. • If Observational Study: <ol style="list-style-type: none"> 1. What is being studied and why? 2. Include a copy of the survey or survey questions that were asked. Also include any/all draft questions that led you to your final questions. Do you think any of your questions could still result in a statistical bias? How/why? 3. At least one of the questions asked on your survey must yield a univariate and quantitative data set. Make sure you highlight the question(s) that meet the criteria and include all data analysis for these questions. • If Experimental Study: <ol style="list-style-type: none"> 1. What were the treatments? 2. How were participants grouped? 3. Was there a control group? 4. Was there a placebo? • State the sampling method used, and how you obtained your samples. Make sure you are very specific with this: ex: random number tables/generator to randomly choose participants, participants out of groups, or groups of participants. Explain why you feel this was the best sampling method for your project. Do you think a sampling bias might occur with your choice? Why/Why not? • Include descriptive statistics for all applicable data sets: average, standard deviation, five-number summary, talk about the range, and describe the distribution of the data. • Do you think there might be any statistical bias in your project? How/ why? 		
<p style="text-align: center;">Charts, Graphs, Data Analysis</p> <ul style="list-style-type: none"> • You must create one graphical display by hand (professional – completely labeled with correct scaling) and explain why this is the best display for your data. • Any other applicable graphs, charts, or data must be included (sketches or using software). • Analyze/explain each of your graphs. 		
<p style="text-align: center;">Technical Report</p> <ul style="list-style-type: none"> • Create a technical report using the data that you collected. Remember, in this report you use the values from your descriptive statistics and apply them to statements about the project data. Write this as if it was being sent to a newspaper, internet site and/or a supervisor of what your data would pertain to. 		
<p style="text-align: center;">Informal Report</p> <ul style="list-style-type: none"> • Create an informal report about the information that you collected. Did your data confirm your original thoughts about your research question? What were you surprised about? Do you feel your data captured useful information? Why/Why not? • Explain where/how you would use/give this information to the public. 		