Grading Rubric for Statistics 104 Project
Data Collection and Analysis

Group Members: ______________________________
__________________________ ______________________________

1) Project set up and Data Collection
   a. 6 pts Variables and Hypothesis – Did you indicate “who” you were collecting data on? Have you identified the numerical explanatory and numerical response variables? Did you give a hypothesis for the relationship between explanatory and response variable?

   b. 9 pts Data collection – Describe in detail how you collected your data. Did you do a sampling study or an experiment? Did you describe how you used randomization, i.e. random selection in a sampling study or random assignment in an experiment? Did you have at least 40 observations?

   Total: __________ out of 15 points

2) Analysis of Data
   a. 5 pts Distribution of the response variable. Did you include graphical and numerical summaries of your response variable independent of your explanatory variable? Did you describe this distribution and note any important features?

   b. 3 pts Did you include an appropriate graphical display of the relationship between your response variable and the explanatory variable? Did you correctly describe this graphical display? Did you note any important or unusual features, e.g. outliers, patterns?
c. **12 pts** Did you include values of summary statistics for the relationship between your explanatory and response variables? Did you correctly interpret the summary statistics within the context of the problem? Did you evaluate whether a linear model is appropriate for your data? Did you discuss what your analysis indicates about your hypothesis about the relationship between the response and the explanatory variable? Did you have the correct conclusion about your hypothesis given your data analysis?

Total: _______ out of **20** points

3) **Quality – 5 pts.** Is your report clear and concise? Did you include sections in your report? Did you include appropriate JMP output within the body of the text? Did you exclude JMP output that was not necessary?

Total: _______ out of **5** points

4) **Following Guidelines – 5 pts.** Did you follow the guidelines in the project description? Was your topic selection turned in on time? Was a detailed description of your data collection turned in on time? Was your data turned in on time? Was your project turned in on time?

Total: _______ out of **5** points

5) **Evaluation by other group members – 5 pts.** Each member of the group should assign a score; from 0 to 5 points, evaluating the other group members’ contribution to the group project.

Total: _______ out of **5** points

Total Project Score: _______ out of **50** points