Stat 407 Project (Fall 2012)

1. (20pts) For the data set you are analyzing, write a plan for the analysis, that (1) states one major (data-centric, not method-centric) question to be answered, and one to two smaller questions that will be answered in your analysis, (2) a step-wise outline of the analysis, that describes the initial data numerical summaries, necessary transformations, or imputations, and multivariate methods with details on how they will be used and the software, including R functions needed. Hand printed version in by Wednesday, November 14. Data sets will be decided or provided by November 9. (No late submissions will be accepted.)

2. (30pts) Conduct an appropriate multivariate analysis on the data. Write a complete report, which will include some or all of the initial analysis plan, your results and conclusions. Conclusions need to be data-centric, answering your original questions. If you had any problems with the analysis, and your results didn't turn out as you expected, you should also comment on this. The report needs to organized well, and into sections. Turn printed report in by Wednesday, November 28. (Late work will result in a 5 point reduction for each day overdue.)

3. (10pts) Give a 3 minute presentation of your results. This will be evaluated by your class members. Presentations will be in the last week of semester, and order of presentations will be determined by a random number generator.

The project is to be conducted individually. You may talk to other students in the class about the data, methods and analysis, but you need to individually conduct your work, and turn in reports. Factors considered in the grading will include:

- Deadlines were met.
- Clarity of the report.
- Analysis is correct and appropriate and thorough.
- Informative and well-timed presentation.