**Project Checklist Semester One (Collect, Organize Data)**

Topic of interest=

**Original Hypotheses**

+ 5 pts Statement of anticipated results prior to data collection (like the shoelace excursion, include numbers and percentage hypotheses).  Is there any professional research to compare your work to? Cite 3 references. Include articles (with parameters highlighted) in this section.

**Random Sample**

+5 ptsIdentify and state the populations represented in this study  (AP sts go off campus also!)

+15 pts  Show evidence of obtaining a truly representative and random sample (in selection of subjects and in approach of respondents).  Describe, in detail, your method.  Write about the struggle to actually locate, and obtain, data from each randomly selected individual. Give 2 especially memorable examples.

+ 5 pts  Give other details such as location, time of month, days of week, hours of day… Would the responses be different at various times of the day/week/month/year? How might this impact your results?

+ 15 pts  Include a copy of your survey.  Be sure to gather both Quantitative and Qualitative/Categorical... 3+ ratio level questions and 2+ rating scale questions.

+ 5 pts  What script did you use in approach of the subjects?  Was there an incentive to complete the survey?  How did you gather their responses?

**Organize Data**

+ 3 pts Display and summarize information with tally marks or response choices in a frequency table.

+ 12 pts Share information accurately and attractively using 4+ types of visual representations of data.

+ 10; +3 pts Compute the 4 averages involved (quantitative data required), commenting on which seems to be most appropriate in each situation.

+ 10; + 2 pts Calculate measures of spread (again, quantitative data), and tell what these numbers mean with regard to your study.  Include 4+ of the 6 measures of spread.

**Present Your Findings**

+ 10 pts During late October, make organized, clear conclusions about your work. Connect conclusions with conjectures (possible explanations for why you got the results you did get).

Be prepared to share your methods & conclusions with enthusiasm & presentation polish in class!