Overview: During this project your group will develop and conduct an 8-10 question survey of at least 75 (ideally 100) of your peers. In addition to your 8-10 content questions, you need to include one master demographic question (gender, age, grade level, etc.) Your survey should be about a policy/policies either here at ATM (dress code, lunch, senior events, tardy policy, absence policy, ID policy, school safety, parking lot policy, traffic, etc.) or local/state/federal policies that apply to teenagers (college admissions, drinking age, legalization of marijuana, driving regulations/rules, gun regulations, school safety, etc.). All survey topics must be school appropriate. Groups may be between one and three people.

Survey Questions & Data Collection: Example survey questions and answer format styles are available on my website (look under course documents). It is suggested that you use Google Forms or Survey Monkey to collect your data. Please do not upload your questions into the electronic survey, until the questions are approved. Draft surveys are due for approval: Thursday, May 2 by noon, via email and will be assessed on: Thoughtfulness of questions, overall survey topic, grammar and spelling, and development of appropriate style/format of questions and answer choices. Your survey MUST be approved before survey administration.

Graphical Displays & Presentations: Additionally, DO NOT copy and paste the graphs directly from your online survey platform. There are frequent errors in these data displays. You should use Excel or http://www.likertplot.com. Your group will then analyze the data and develop compelling graphical representations of your findings. Based on your findings your group will then make policy recommendations.

Presentations: All final projects will be presented via an interesting and well-designed PowerPoint presentation. Presentations will start on Friday, May 31.

Grading: The entire project is worth 175 points. The draft survey is worth 25 points and final project is worth 150 points. Late projects will not be tolerated.

Final Project Components: (DUE: Friday, May 31 by 7am)

- PowerPoint Presentation of findings (sent via DropBox link*) (95 points)
- Excel spreadsheet with all data(sent via DropBox link*) (10 points)
- Typed Survey questionnaire (sent via DropBox link*) (5 points)
- 8-10 minute in-class presentation of findings and envelope of raw, completed surveys (40 points)

Final Stats Survey Project Grading Breakdown (150 points):

1. PowerPoint Presentation of findings (max 95 points)
   Assessed on:
   - Quality of Mathematical, Statistical and Graphical Analysis in PowerPoint (50 points)
     - Appropriate type of graph selected by on question
     - Variety of graphical representations used
     - Quality of comprehensive recommendations based on data
     - Inclusion of at least two statistical tests (ideally three). Complete PHANTOMS/PANIC process should be used; you may have to be flexible on the expected counts condition.
   - Visual Appeal & Quality of Construction of PowerPoint (30 points)
     - Slide Transitions
     - Background
     - Font/Colors (font size is readable from back of classroom)
     - Images, where appropriate
- Design elements support, not distract

- Quality of PowerPoint Content (25 points)
  - Spelling and grammar
  - Clear and concise writing
  - Inclusion of all required elements

Required Elements in the PowerPoint Presentation of Findings:

- **Slide 1**: Title of Project, Group Member Names, Date, “Mrs. Daniel- AP Statistics”
- **Slide 2**: Executive Summary: 3-5 sentence summary of entire project, including results
- **Slide 3**: Summary of Research Question/s (2-3 sentences)
- **Slide 4**: Explanation of why your group selected this specific topic (2-3 sentences)
- **Slide 5**: Demographic Overview (gender, grade level, etc.)
- **Slides 6-15**: Data Review; each slide must include the exact question asked, a graphical representation of the responses (the graph must have a key) and a one to two sentence discussion of the results. Things to consider: correlations between demographics and answers, were the results expected or unexpected, thoughts on why the data was distributed as it was, etc.
- **Slide 16-21**: Statistical Tests and Discussion
- **Slide 22** Potential sources of bias and/or errors in the survey writing
- **Slides 23-25**: Using the data gathered in your survey, what changes/improvements should be made to the policy at issue? What policies are effective? Include three to four recommendations and/or suggested changes in policy based on survey results.
- **Slide 26**: Suggestions for further investigations/future surveys (What changes can you make to your survey? What additional questions should be asked based on your results?)

2. 8-10 minute in-class presentation of findings (max 40 points)
   Assessed on:
   - Thoroughness and thoughtfulness of discussion
   - Effort
   - Demonstration of deep understanding of entire presentation
   - Preparation and adherence to time limit
   - Envelope of completed/filled out surveys
   - Entire group participation

3. Chart/spreadsheet (Excel) with all data (max 5 points)
   Assessed on:
   - Neatness, legibility, well labeled and ease of understanding
   - Submitted via DropBox Link*

* I will accept submissions in the following file formats: .doc, .ppt, .pptx, .pdf, .xlsx and .xls. If you use Apple software like Pages, KeyNote and Numbers or OpenOffice/GoogleDoc, please submit your files as PDFs.