

Project Guidelines

STATISTICS

OVERVIEW

The purpose of the project is to intrigue and stimulate curiosity in statistics by relating it to real world applications. Specifically, to help students understand statistics as the science of planning studies and experiments, obtaining data, and then organizing, summarizing, presenting, analyzing, interpreting, and drawing conclusions based on the data. The project will consist of two portions.

- Verbal presentation
- Written presentation

REQUIREMENTS

Groups will consist of four members. Each member will be responsible to present orally and contribute to the written portion. Length of presentation will be around 15mins. Written portion without graphs will be around 5pgs. Use same format through out paper.

Group power point presentations and written portions will include at least the following objectives;

- **Introduction**

Introduce/list group members/authors

Briefly describe the study

- **Literature Review:**

Summarize articles in support to validate the study (use statistics)

What are the benefits of informing us about this topic.

- **Methodology:**

Describe sample and survey (look at power point for vocabulary)

Describe statistics such as proportions or means and what hypothesis test is appropriate

- **Findings:**

Analysis and summary of data, graphs, charts ect... (include information about 2 or 3 survey questions)

Hypothesis Test (state hypothesis and comment on each step)

- **Discussion:**

Preliminary analysis (discuss any preliminary hypotheses ideas)

Explain results (what are some possible reasons for accepting/rejecting, what does this infer)

Discuss any other relevant information you found interesting

- **Future Direction:**

Questions worth pursuing (What were some interesting questions left unanswered, what would be some follow up questions worth pursuing that are beyond your study)

Critics (what would you do different, what could you have done better)

- **Conclusion:**

Summarize/recap important information (What important information would you like us to walk away, Refer to your finding and discussion section for support).