

Group Project Guidelines

We will have a group project with a poster presentation as a “final takehome”. You may work in groups of three or four people; groups of five are ok, but the problem difficulty/workload is expected to be higher. Your project should be a complete statistical analysis. Your goal is to produce a poster that outlines a question to be studied, performs an appropriate statistical analysis, answers the questions, and provides conclusions and limitations of the analysis. The presentation should stand on its own, and should not require previous knowledge of the data set. Some suggested data sets/problems that are suitable are given on the web page.

Poster

The poster should contain several parts.

- An introduction to the question to be studied. You should describe the overall question that you will be studying.
- A description of how the question will be approached. In this portion, you will need to describe the data that you will use to answer the research question. You should also describe how the data relate to the research question.
- A description of the analysis performed. Here, you should describe the analysis that you did. There should be enough description so that a reader familiar with the techniques you use can understand the analysis (or could repeat it). Describe hypotheses and give test statistics, p-values and interpretations.
- One or two plots/graphs containing supporting documentation— important annotated computer output to back up the analysis and conclusions (i.e. your final model with SE's and summary measures)
- A summary of the conclusions. These conclusions should be stated in words relevant to the research question.

This should be written so that a non-statistician can understand your results and conclusions. Your poster may be constructed with up to **12** 8.5 by 11 sheets that address the above parts. These should be printed out on plain paper and submitted by April 18th by 5 pm, so that grading of the written analysis can be conducted prior to the poster session. (What you turn in on April 18th should be suitable for a poster presentation, i.e. large fonts that are visible from 4 feet away; avoid paragraphs of text.) You may arrange this information on poster board and illustrate it as you like for the final presentation. Each group will be given 5 minutes to make an oral presentation of their poster to the group. There will be a prize (awarded by popular vote) for the best poster. The poster session will be held April 19 (room and time TBA, but with an upper bound of 20 groups, will take at least 2 hours). Groups that cannot attend will have to arrange for a makeup presentation.