

Statistics 6021

Final project

The body of the project – proposal, report, and presentation – will be completed in assigned teams of three or four. Each team member will also individually complete an assessment of the team’s performance.

The subject of the project will not be assigned, instead it will be chosen collaboratively by the members of each team. Each project should feature:

- Clear central analytic goal(s) and/or question(s) to answer – the more interesting and challenging, the better.
- Identifiable data that can be obtained in support of the project.
- A substantial computational component, required for data cleaning prior to analysis or for the actual analysis (or both).
- Analytic methods developed in this course.

Component 1: Proposal

Each team will prepare a project proposal for review. The proposal should be no more than two pages and should provide information about project that the team plans to conduct, including project objectives/goals, the data that the team plans to use, expected data cleaning, and expected methods of analysis.

Feedback on the proposal will be provided and will include an assignment of a “degree of difficulty” factor $d \leq 1$ that will be based on the instructor’s evaluation of the challenges that the project presents. This factor will be multiplied by the initial project score to obtain the final project score. Teams will have the option of submitting one revised proposal.

The printed project proposal is due in class on **Thursday, October 20th**.

Component 2: Report

Each team will prepare a project report. This report should be no more than 10 pages and should include the following:

- An executive summary the describes the goals/questions of the project, the nature of the data used in the analysis, and the results of the analysis, including any recommendations. (Maximum: 1 page)
- A detailed description of the data, the analysis, and the conclusions reached, making use of graphics as appropriate.
- Correct grammar, clear explanations, and professional presentation.

The printed project report is due in class on **Tuesday, December 6th**. Your annotated R code should be submitted to Collab by the beginning of class on the same day.

Component 3: Presentation

Each team will give a 15-minute presentation. This presentation should be designed to be understandable by anyone familiar with the course material, but who has not read the project report. Each team is free to organize who talks about which topics during the presentation. Not everyone need talk, but all team members should be active contributors to the presentation materials.

Presentations will take place on **Saturday, December 10th** from 9am until noon or until all presentations are finished. You must be present for all presentations unless you have prior permission due to a schedule conflict. Each team should bring their presentation slides on a flash drive or be prepared to **quickly** access them online if using an Internet-based presentation. Printed slides of the presentation should be turned in at 9am on December 10th.

Component 4: Evaluation

Each team member will submit a brief assessment of their own and their team members' performances on the project. These evaluations will factor into the initial project score for each team member.

The assessment statement is due on **Saturday, December 10th** by 11:59pm and should be uploaded to the Collab assignment.