

1 Overview of the Project

To reward the hard work you have been putting into this class, I've decided to offer a group Extra Credit opportunity to everyone! Here is how it will work:

- We will break into 14 groups of no more than 5 each, where each group will be focusing on a particular topic from the course. The signup sheet can be found [here](#).
- Each group will be tasked with putting together a **minimum one-page document** summarizing the topic they have signed up for. This summary should include:
 - A glossary (i.e. a list of relevant terms and their definitions)
 - A “formula sheet” (i.e. important formulas/mathematical definitions that arise)
 - A brief description of the topic (feel free to include examples from “real-life” as well!)
 - A minimum of 3 problems from homework/lecture/worksheets that pertain to the topic at hand, along with solutions to all of them. Don't just copy the solutions posted to the class website; you must write your own!
 - A minimum of 3 problems from outside of the homework/lectures/worksheets (I find that our Course Textbook has a plethora of problems from which to choose, but you can also use any other textbook or resource you find online).
 - You don't need a full-fledged Bibliography, but please include a list of sources you use.

2 Timeline

- **Please sign up for a group by no later than 11:59pm on Monday July 18.** This deadline is to ensure that group members are contributing equally, and not just “jumping on the bandwagon” after everyone else has done most of the work.
 - Should you attempt to add yourself to a group after the deadline, you must have your groupmates send me (Ethan) an email confirming that they are all okay with adding you to the group late.
- You may begin work on the project as soon as you like, but reports are due by no later than 11:59pm on Saturday, July 23. **No late submissions will be accepted for any reasons.** Also, please see the section “After Submission” below.

3 Logistics of Submission

- You will be submitting your project on Gradescope; only one person per group needs to submit, but when you submit you will be prompted to enter your groupmates' names.

4 Grading

- Your reports will be graded on 3 aspects:
 - **Clarity:** Was your report easy to read? Was it free of major grammatical errors/typos?
 - **Comprehensiveness:** Did your report contain all necessary information, or were key points lost?
 - **Correctness:** Was your report factually correct, or did it contain major mistakes?
- Your report does not need to be typed, but it must be readable. (If you are interested in using \LaTeX for your project, I highly recommend using [Overleaf](#), which functions as sort of a Google-Docs analog for \LaTeX projects. I've also included a sample \LaTeX template that you are free to use!)
- Please note that I will be making these reports available to your classmates to use as study tools for the final exam!
- Your project will be graded out of a maximum of 15 points (5 points for each of the metrics listed in the above section). Additionally, the Extra Credit Project will correspond to a maximum of a 5% increase in your grade.

5 After Submission

- Early on Saturday (7/24) morning, I will release your projects to the class on a public Gauschospace Discussion Board. Your peers will comment on your projects, and weigh in on whether they think your projects are clear, correct, and comprehensive.
- You will then have until **11:59pm on Tuesday, 7/26** to resubmit your project with any modifications you feel are prudent, after seeing your peers' comments.
- After Tuesday, the TA's and I will go through and issue a final grade. **Please note that there is a high probability that we will NOT be able to complete the grading of your projects before the final exam.**

Overall, I hope this is a fun opportunity for everyone to engage with the material at a slightly deeper level than we've done thus far. I also highly recommend generating your own individual reports for all the topics in the course, as a way to study for the final yourself! Needless to say, I (and the TA's) are happy to answer any questions during Office Hours.