

Project Title Goes Here

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Mathematical Modeling (Math 420)
Final Project

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ATTENTION: Here are guidelines & instructions for your **final report** and **presentation**.

- **Writing well matters!** This should be well-written, and readable.
- The report **must be typed**, but not necessarily in LaTeX (MS Word is sufficient).
- There is no page requirement, but it should probably be at least a couple of pages. **Please don't make it too long!** I'd rather read something short and to the point. Longer won't get you any extra points!
- **Presentations:** Your short presentation on **Monday 12/14 during 2:45pm-4:45pm** should be 2-3 minutes long, and must include roughly 2-4 slides (more is OK, so long as you don't run over time!). Outline your talk according to something like "the five step method" discussed at the start of the course.
- **Deadline: Your slides are due Monday at 12pm (noon).** Create them however you'd like, but **send me your slides in PDF format**. You are welcome to send other file formats in addition to the PDF -- I'll load them onto the (Windows) computer in DMS 106 along with the PDFs.
- **Deadline: A hard copy of your final report is due Tuesday (12/15) by noon.**
- Below is a template for how to structure your report. **Acknowledgements and Appendices are optional.**

Abstract

Include a brief summary -- write this once the rest of the paper is mostly written.

1 Background/Introduction

Describe the key details a reader needs to understand the context of your goal/question. This should only take a few short paragraphs in most cases.

2 Goal/Question

This is the foundation of your project! It's the whole motivation for your analyses and the yardstick by which we interpret and evaluate those results.

3 Approach/Methods

Describe briefly how you will answer your question or otherwise achieve your goals. Describe your model(s) and detail how you plan to analyze it(them).

4 Results

Present your mathematical results, and perhaps give highlights of the steps taken to achieve them. **Tell a good story!** Don't just fill this section with a step-by-step mathematical derivations!

5 Discussion

Answer your question by discussing how those mathematical results address your motivating question(s), or otherwise interpret your results in the context of your motivating goal(s)/question(s).

Acknowledgements

If anyone helped you along the way, recognize them here.

References

(Format these according to your preferred style. I only require that the information be sufficient for me to quickly find the referenced works if I went looking for them. DOIs are very useful to include, but not required.)

Appendices

Any technical details you wanted to include, but that were not necessary to put into the main text (e.g., the routine steps of an analysis can go here if you wanted to skip to the punchline in the writeup).