

Math 4960: Mathematics/Statistics Honours Thesis

(with Pritam Ranjan)

Course Outline and Due Dates

1. **Thesis Proposal write-up:** Due Date - End of the summer (in most cases).

The proposal could address the following questions: What is the problem? Who cares? Why is it challenging? What are you proposing to solve it? It should be roughly 1-5 pages, and the description of the problem should also be understandable to a non-expert audience in the area (e.g., anyone in Statistics).

2. **Thesis Outline:** Due Date - mid September (early enough to allow a change of mind)

Submit a detailed outline of thesis. This should contain all chapters headings, most of the results, proper figures, and a bibliography.

3. **Thesis Proposal presentation:** Third week of September (in most cases).

Can you explain your work in a concise manner to a broader audience?

4. **First Draft of Thesis:** Due Date - December 15 (before Christmas break)

Submit a first draft of completed thesis to supervisor(s) and internal reader. This will allow the internal reader and supervisor(s) to ask for substantial changes to thesis, if required. The review should be completed within two weeks (i.e., before the classes start in January).

5. **Second Draft of Thesis:** Due Date - End of January.

Submit the revised version of the thesis to your supervisor(s) and internal reader. The reviewers will check if the suggested changes have been made.

6. **Oral Presentation of Thesis:** First week of February.

You will have roughly 15 minutes to describe your work to the entire department (faculty and students). You can try to address the following questions: What is the problem? Who cares? Why is it challenging? Present the solution of the problem. Show the results. Discuss potential future work on this problem.

7. **Third Draft of Thesis:** Due Date - Third week of February (before the study week)

Submit the almost final version of the thesis to supervisor(s) and (possibly) internal reader. The reviewers will most likely suggest some fine-tuning.

8. **Final Thesis Submission:** Due Date - Roughly second week of March for R&GS.

Marking Scheme: Supervisor 80% + Internal reader 20%

Activity	Percentage
Proposal write-up	5
Proposal presentation	5
Thesis outline	10
First draft	20
Second draft	30
Third draft	15
Final presentation	15

Presentation Tips:

- What is the problem you are working on?
- Who cares and why is it challenging?
- What did you do to solve the problem? Explain your approach.
- Clear explanation of the results
- Pace of presentation (time the slides)
- Try to use graphics/animation if possible