

# MATH 456-01

## Project Presentation Expectations

1. Each group will have 45 minutes to an hour to present its work. For efficiency, I recommend a Beamer presentation, but that is not mandatory.
2. Each presentation should be as complete as possible.
  - (a) Due to time constraints, you will not be able to prove everything related to your topic, and I do not expect you to.
  - (b) Nevertheless, you will need to introduce any new definitions.
  - (c) Examples will help the audience understand newer ideas.
  - (d) If your results require substantial infrastructure, consider including an outline of the main ideas.
  - (e) Any theorem needed should be presented, even if you will not be proving it. (Note: I am referring to theorems you introduce, not theorems we have already established as a class. Citing those is sufficient.)
  - (f) The main result should be proved even if it relies on lemmas you did not have time to prove.
3. All group members will need to participate in the presentation. I will assign a group grade as well as individual grades, so make sure everyone gets a roughly equal share of the presentation time.
4. This is a capstone for the course, so don't focus on the easiest parts at the expense of the hard parts! I'm looking to see what you can do with the more sophisticated ideas underlying your topic.
5. Practice your presentation as a group! Make sure you stay within the time constraints and can cover everything you need to in a coherent way.
6. Grading will work as it has for other presentations: correctness, clarity, presentation, and responses to questions. (Do allow a little time for questions.)
7. As with other presentations, I expect you to make the proofs your own. A verbatim version of the book's proof (or Wikipedia's, or whoever's!) will not suffice. I am, as always, more than happy to work with you through anything to help you reach the stage where you can create your own version of the proofs.
8. **IMPORTANT:** You should check in with me at least a week before you present so we can talk about what you are including in your presentation. I'll help make sure you're hitting the most important points of the topic.
9. Note: topics from these presentations are fair game for the final! Be sure to be there for everyone's presentations and to take notes.