

# Undergraduate Mathematics Seminar Proposed Topic: SOMETHING

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A main goal for part I of the Undergraduate Mathematics Seminar is to develop a topic on which you can give an hour public seminar in part II of this course. To assess your progress toward this goal you will submit a written proposal. This document gives guidelines on what should be in the proposal. It also serves as a template for the proposal. Text in this color are instructions, which will be hidden in the final version. Text in this color are things to delete and replace.

The proposal should be quite detailed. The content development needed to give the presentation should be done now, so that next semester you only need to work on the mechanics of giving a good talk.

## 1 Introduction

Explain the topic briefly. To specify the scope of what you will present on, it may be useful to list subtopics that you will include and subtopics or related topics that you will specifically exclude. Argue that this topic meets the topic guidelines on:

- The topic should be very interesting to the presenter and also interesting to the audience.

Your text.

### 1.1 Summary of how previously studied mathematics topics are used

Relate the topic to specific material in specific courses. Argue that this topic meets the topic guidelines on:

- Non-Duplicative.
- Appropriate Level for the Audience.

Your text.

### 1.2 Sources about the topic

Describe the sources to be used. If they are long sources, such as books, then specific sections or pages should be indicated. Argue that this topic meets the topic guidelines on:

- Appropriate Level for the Presenter.
- Appropriate Size.

Your text.

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### **1.3 Bibliography**

Include full citations of the sources you are using.

Your text.

## **2 Content**

Present the actual content of the talk. All the main elements should be described, but some details can be deferred. For example:

- If you are going to state and prove a theorem in your talk, then state it formally here. You can write “proof to be filled in” and skip the proof if you like.
- State the examples you plan to use and their solution. You can skip the intermediate details if you like.

Organize the content in the order it will go in the talk, using sections and subsections to break it up. For each (sub)section list the number of slides or number of minutes that you expect it to take. Break into (sub)sections of no more than 3 slides or 5 minutes.

Your text.

## **3 Appendix: Draft of the presentation slides**

Formatting of the slides need not be polished. Elements can be missing if a placeholder is included. For example, you can put “make diagram showing...” and do the diagram later.

There is a separate template for the slides.