

Final Writing Assignment (Outline + Bib, First Draft, Final Draft)

Sample student final papers:

The top of the *Resources* page: egunawan.github.io/writing/resources

Directions for Final and Bibliography:

- First, make sure you understand the directions for the actual paper (written on the next page).
- Spend some considerable time doing outside research to refine and expand on your ideas for your final paper. Keep track of your work (your ideas for topics, articles, textbooks, websites, and other materials you have looked at) either on paper or electronically.
- Copy the `.tex` file egunawan.github.io/writing/hw/06/guide06.pdf. Rename the `.tex` file `LastNameOutline.tex`. Put it in a new folder called `assignment7` in your usual `MATH2794W YourName` project. Use it as a template for your Final Paper Outline and Bibliography.
- As usual, you need a `.bib` file (for example, you can call it `mybib.bib`) and you need the following two lines at the bottom of your `.tex` file: `\bibliography{mybib} \bibliographystyle{alpha}`
- Your outline should include tentative titles for the sections and subsections of your Final Paper. Use `\label` to create a label for each section and subsection.
- In each section and subsection, type up notes for what you plan to include in the given (sub)section and use `\cite` to cite the references you will use in that (sub)section.
- All references you intend to use should be put into a `.bib` file. At this stage, your bibliography should contain at least four sources (not including the Math Club talk). Two of the sources should be published (e.g. a textbook, an article in a journal, or an arXiv article).
- Possible places to look for references, in addition to the list of suggested references provided by the speaker (listed on the [Resources page](#)):
 - the online library resources (such as www-jstor-org.ezproxy.lib.uconn.edu and guides.lib.uconn.edu/math),
 - your own textbooks, and other online resources - for example, the website aimath.org/textbooks/approved-textbooks/ has a list of open-source textbooks available for free online.
- Include a tentative title for your paper (which should be different from the title of the related talk).
- Send your `YourLastNameOutline.tex` PDF file as an email attachment by the deadline, but before our meeting.
- Submit your `.tex` and `.bib` files in a folder called `assignment7` in your usual Overleaf project.

Directions for the Outline and bibliography submission:

- Send via *email* (`YourLastNameOutline.pdf` PDF file only)
- In the folder `assignment7` in your usual Overleaf project), put `.tex` and `.bib` files needed to produce the PDF file.
- Late Assignment policy for the Outline and Bibliography: Late assignments are accepted (up to five days) if you let me know - no grade penalty.

Directions for Final Paper (actual paper):

- Your Final Paper
 - (a) should be loosely inspired by a Math Club talk and
 - (b) should incorporate significant outside research that goes in a new direction, explores additional topics, and/or considers new applications

Mention somewhere in your paper which information is from the talk (as opposed to outside research).

- Assuming that assignment 6 is part of your final paper, your final paper must be at least 7 pages but no longer than 10 pages (not including table of contents, references, tables, and figures) with either 12pt font and margins similar to the template given in assignment 6.
- If your paper is a little long, you may reduce the margin (thus producing fewer pages) by putting the command `\usepackage{fullpage}` from the preamble (see the sample student papers). Smaller size font is OK too.
- Your content sections should be at least five FULL pages in length.
- A total of at least two FULL pages of your content sections should contain nontrivial proofs, mathematical arguments, or computation related to your paper topic. Said another way, your paper should highlight your ability to both learn some new mathematics and communicate this mathematics effectively using standard mathematical conventions.
- Definitions, theorems, remarks, lemmas, corollaries, figures, and tables should be presented using `\begin{definition}` and `\end{definition}` (and similarly for `theorem`, `remark`, `lemma`, `corollary`, `figure`, and `table`). Every definition, theorem, remark, lemma, corollary, figure, and table in your paper should be introduced by using at least one complete sentence.
- In particular, the definitions and/or theorems from the background section(s) should be referred to throughout the main content sections.
- Come up with your own titles for your sections (and subsections). These titles should be concise and should indicate what each (sub)section is about.
- Your paper should include at least 2-4 references that are used nontrivially throughout your paper. A citation is needed whenever you use ideas from these references. The sentence structures and ideas themselves must be rephrased in your own words (as opposed to quoted).
- Each reference entry in your `.bib` file needs its own unique label, where the first item in the list that defines your reference is the LABEL. You can then cite this reference in the `.tex` document using `\cite{LABEL}`.
- I recommend writing the introduction last. See the sample student papers.
- The last paragraph of your introduction is your “paper outline paragraph.” It should refer to each section (and subsection, if important enough) using `\ref`. See the last paragraph of the introduction of the sample student papers.
- Finally, your abstract should be one paragraph in length and should contain everything an abstract should. Be very direct. Tell the reader concisely the main statements and goals of the body of the paper. Do *not* use the `\cite` or `\ref` command here, but it’s OK to spell out the names of the authors of your references if they play a big role in your paper. See [sample abstracts](#).

Directions for Final Paper First Draft submission:

1. Late Assignment policy for the first draft:
 - Late first drafts are accepted if you let me know. There is no grade penalty.
 - Note that a first draft is required to receive a grade on the final submission. You can submit a first draft even if you miss the late deadline for Outline and Bibliography.
 - No written feedback will be provided for a late assignment, but you can schedule an extra in-person meeting to receive feedback.
2. Send your file `LastNameFirstDraft.pdf` as an email attachment by the due date.
3. In the folder called `assignment7` in your Overleaf project, put all source files (`.tex`, `.bib`, image files, etc) needed to produce the PDF file.

Directions for Final Paper (final version):

1. Late Assignment policy for the first draft:
 - Late papers are accepted. **For each hour that the assignment is late, one percent (1%) will be deducted from the assignment score.**
 - Note that a first draft is required to receive a grade on the final submission. Late first drafts are accepted.
2. Email your paper `LastNameFinal.pdf` and letter `LastNameLetter.pdf` by the due date. The following is the template for the letter `LastNameLetter.pdf`: [finalcover.tex](#)
3. In the folder called `assignment7final` in your Overleaf project, put all source files (`.tex`, `.bib`, image files, etc) needed to produce the PDF file.