

Guide to Using Ginnie + Rachel's Stat 110 Section Notes Template

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Hello fellow Stat 110 TFs! We're so excited for you to join the best teaching staff in the world :) Feel free to reach out to us with any questions (rachel.li.2019@gmail.com and virginiamama2019@gmail.com)

Logistics: We downloaded our LaTeX templates from Overleaf as a zip file, which can be found at this [link](#). You can upload the zip directly into Overleaf, which will automatically contain all 12 sections. Alternatively, you can unzip the folder and access each tex file separately.

Contents of the zip folder:

- Stat110.sty (style file inherited from past iterations of Stat 110 TF section templates with some of our own customized commands; if you want to define new commands, you can do it here!)
- Images folder (contains all the figures used in section notes, which are labeled with the section # first for easy reference)
- Exam review tex files (Midtermreview.tex, Finalreview.tex) — each one will compile on its own as long as you also include corresponding images and the .sty file
- Section tex files (12 in total) — each one will compile on its own as long as you also include corresponding images and the .sty file

Section Notes

Feel free to use them as is. We put a lot of thought into writing these notes and hope they will serve you and your students well! Things get better with each iteration, so we also encourage you to make edits for the better :)

Depending on what day of the week you teach your section, how fast Joe paces the material in his lectures, and different holidays/breaks, you may need to shift the content of the sections to stay on track (last year we only had 11 sections while the year before we had 12).

Teaching Notes

Over the years, we have learned a lot about how to better teach the material. We wanted to share these insights with you through the teaching notes (in blue text). You can toggle these on and off by commenting out the appropriate tex lines, so they don't accidentally show up in your students' section notes.

Practice Problems and Solutions

It is extremely important to go through practice problems. Many students understand the material, but struggle/get stuck on solving problems. It's important to remind them that problem solving itself is a muscle that needs to be practiced! Feel free to add more problems (the exercises in the textbook are a good resource) and also make sure to check with the week's pset to make sure section problems aren't accidentally giving away solutions.

One style of teaching is to review material first, then cover the practice problems at the end of the section. Another style of teaching is to cover a concept, then do a practice problem that illustrates that concept in use, and then move onto the next concept (I find this highly effective especially when the material is more abstract). It often helps to pick simple examples instead of more challenging practice problems to initially demonstrate the concept.

Midterm and Final Review

We've also included our templates for midterm and final review. Our format has been first hour concept review, second hour open questions / practice problems. Find some friends who are also TFs and hold the review sessions together! It'll be like a party :)

General Advice

- You are a baller and you will make an awesome TF!
- It's okay to not know the answer and it's most definitely okay to make mistakes once in a while! Making mistakes helps students learn: (1) common pitfalls, (2) why their approach might not work, (3) that problem solving is not a linear success story.
 - TF-ing is as much about teaching as it is about learning more for yourself too :)
- Ask "What questions do people have?" instead of "Do you have any questions?"
- We like to bring our students some yummy food in the last section to celebrate (and sometimes the week before or after the midterm).
- Enjoy the process and share your excitement with your students! Teaching is one of the best things we've done throughout our time in college.