
MATH 307 LINEAR ALGEBRA AND DIFF. EQ.

STUDY GUIDE

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BEFORE EACH CLASS

Lecture time is limited, so it must be used efficiently. Much of your learning must take place outside of the classroom. You are expected to be prepared as detailed below.

- Review your notes from the class before, in order to make sure you understand the material that has already been covered.
- Read the appropriate section(s) of the textbook **before** the material is presented in class. This will greatly improve your understanding of the lectures.

AFTER EACH CLASS

For each hour in class, you should spend at least two or more hours studying outside the classroom.

- Carefully reread your lecture notes and the examples therein.
- Review the animations placed in the lecture notes and try them by yourself.
- Attempt all of the homework problems and all suggested problems (appearing at the end of each sections in the lecture notes.)
- If you don't have time to give a shot at all the suggested problems, then I suggest you to try at least 5 problems in each set.
- Try not to look at the solutions before attempting a problem!
- Don't hesitate to ask your TA or myself for help during our respective office hours.

BEFORE AN EXAM

You won't have a lot of time to complete the problems on the exam (50min). Make sure to arrive prepared, so you don't unexpectedly loose time on a problem. Follow the tips below to prepare yourself.

- Reread your lecture notes. Make sure you understand all the examples that we did during the lectures. You can try to redo the examples by yourself and compare your solutions to the one given in class.
- Try by yourself the animation made with DESMOS and placed in the lecture notes. This will help you visualize what we did.
- Summarize the material of each week. In this way, you will have a great overview of all the material that was covered. You can use a mindmap to create your summary or just a short list.
- Retry the homeworks and worksheets problems. The problems on the exam will be really similar to the homeworks and worksheets problems.
- Retry the suggested problems of each section. Make sure that you understand the problems that you got wrong.
- Study with a friend, you can quiz each other on the material!