Math 27300 - Section 40
Basic Theory of Ordinary Differential Equations

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Course Web-page: http://math.uchicago.edu/~henderson/2019/27300/27300.html

Schedule: TTh 11:00 am - 12:20 pm in Eckhart 202.


Office Hours: M: 1-3 pm, F 1-2 pm

Math 27300 is a first course in ordinary (that is, one-variable) differential equations covering some of the basic concepts of the subject. The main points of emphasis will be on solving linear first order systems of equations, understanding the long-time behavior of non-linear systems of equations, and applications. Time permitting, we will also discuss the (subtle) issue of existence and uniqueness of solutions to equations. We will follow the textbook closely, going through roughly one chapter per two lectures and covering the majority of Chapters 1 - 10.

Grading: Your final grade will be calculated as follows:

- **Homework**: 15% - Homework will be due in class on Tuesdays (it may not be handed in in any other manner except under exceptional circumstances). Homework problems will be posted on the course web-page site. Late assignments will not be accepted except in exceptional circumstances with prior approval. You are encouraged to work collaboratively on the assignments with your fellow classmates but solutions should be written up independently. Solutions will be graded for both technical correctness and coherence. Homework must be stapled.

- **Midterm** ($\times 2$): 25% - These will be in-class exams whose dates will be announced at a future time (roughly, one during fourth week and one during seventh).

- **Final**: 35% - Preliminary time/date is Tuesday, March 19th, 10:30 am - 12:30 pm. (Date/time is set by the registrar and is non-negotiable – see department policy below.)

Department Policy: It is the policy of the Department of Mathematics that the following rules apply to final exams in all undergraduate mathematics courses:

1. The final exam must occur at the time and place designated on the College Final Exam Schedule. In particular, no final examinations may be given during the tenth week of the quarter, except in the case of graduating seniors.

2. Instructors are not permitted to excuse students from the scheduled time of the final exam except in the cases of an Incomplete.

The policies outlined above are subject to reasonable change at instructors discretion. In the event of a change, written or verbal notice will be given.