

SYLLABUS

Math 793C

Advanced Set Theory

Fall 2013

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Office Hours: M, W, F: 11:30 am – 12:00 noon, or by appointment

Text: (recommended but not required)

THOMAS JECH, Set Theory, Edition 3, Springer 2006, ISBN: 978-3540440857

Prerequisites: Grade B or above in Math 683 or consent of the instructor. I will assume familiarity with ordinal numbers and transfinite induction and recursion. Students who did not take Math 683 before need to demonstrate this knowledge before registering for the class.

Grading:

The course grade will be determined by:

1. homework – 600 pts. available
2. quizzes – 100 pts. available
3. two tests – 200 pts. available
4. final exam (comprehensive) – 200 pts. available

The sufficient scores for each course grade are as follows:

- 700 pts. for B,
- 900 pts. for A,
- 1000 pts. for A+.

Schedule:

1. In the description below I assume that each week starts on Monday and ends Friday except weeks 3 and 9 that start on Wednesday and week 16 that consists of Monday only. The week of thanksgiving break is between weeks 14 and 15.
2. New material will be introduced in classes 1–12, 16–26, and 30–40.
3. The tests will be given in classes 15 and 29 (Mondays, September 23 and October 28). The remaining classes will be review classes.
4. The final exam will be given on Thursday, December 12 from 3pm to 5pm.
5. Quizzes will be given each Wednesday of weeks 2, 4, 5, 7, 8, 10, and 12–14 and on Friday of weeks 3, 9 and 15 (September 4, October 18 and December 6). These are classes 5, 8, 10, 13, 19, 22, 25, 27, 33, 36, 39, 43. The material for the quiz consists of what was covered after the previous quiz or test. Each quiz will be worth 10 pts. Two worst quiz scores will be dropped.
6. Homework will be assigned on Friday of each week 1–4, 6–9 and 11–14. Except for the last homework, it will be due on Friday of the following week (40 pts. for each assignment). The last homework, assigned on Friday of week 14 (November 22), will be comprehensive, will be due before the final exam (December 12 by 3pm) and will be worth 160 pts.
7. The homework assignments, tests and the final exam will be different (harder) than for Math 683. The quizzes will be the same as for Math 683.