

Math 416: Final the Ultimate

Date/Time/Location: There will be a combined final exam for sections C13 and D13 of Math 416, which will be held on Monday, May 7 from 7–10pm in Lincoln 1000. Please notify me immediately if you have another exam in that timeslot.

Office hours: Here is my schedule for the rest of the semester:

- Monday, April 30 from 3:30–4:30.
- Tuesday, May 1 from 10–11am and 2–3pm.
- Thursday, May 3 from 2–3pm.
- Friday, May 4 from 12–2pm.
- Monday, May 7 from 12–2pm.

Test format: The format will be the same as the midterms. That is, the test will have a mix of computational, conceptual, and proof-based questions. Overall, I expect it to have about twice as many problems as the midterms, though you will have thrice as much time (plus change) to do it in. Most of the questions will be at a similar level as those on the midterms, but a few may be harder or more involved (though certainly no harder than the homework problems). As usual, I will not ask you to repeat proofs of theorems covered in class.

Cheat sheet: You may bring **two** sheets of standard US letter or A4 paper to the exam, on which you have written, printed, or copied anything that you think will be helpful. You can use both sides of each sheet, but must be able to read it without a magnifying glass or suchlike aide to gracious living.

Material covered: The final exam will be comprehensive. Fair game is anything from

- Lecture from any day of class.
- Sections 1.1–1.6, 2.1–2.5, 3.1, 4.1–4.3, 5.1–5.3, and 6.1–6.5 of [FIS].
- Sections SSLE, RREF, and TTS of [Breezer].

As always, the most important material is that which appeared in lecture or on the homework. The material from Sections 6.2–6.5 of [FIS] that was on the last two HW assignments, which constitutes about 20% of the course, will be more like 25–30% of the final to reflect the fact that it did not appear on any midterm.

Study resources: The course webpage, which is <http://dunfield.info/416> contains scanned lecture notes and solutions to selected HW problems. I will post solutions to HW 11 immediately after class on Wednesday, May 2.