

Course material for the exam in DM551

The material students are responsible for in connection with the exam is:

1. Counting — Chapter 6 in Rosen
2. Discrete probability — Chapter 7 in Rosen
3. Advanced counting techniques — Sections 8.1, 8.2, 8.5, and 8.6 in chapter 8 in Rosen
4. Randomized algorithms — Sections 13.1-13.5, 13.9 (without proofs), and 13.10 in chapter 35 in Kleinberg and Tardos
5. Randomized algorithms — Sections 5.1, 5.2, 5.3, 5.4.3, and 5.4.4 of chapter 5, and section 7.4.2 in CLRS
6. Universal hashing — Section 11.3.3 in CLRS
7. String matching — Chapter 32 in CLRS
8. Gambler's Ruin problem — notes by Tom Leighton and Ronitt Rubinfeld, from MIT. See <http://web.mit.edu/neboat/Public/6.042/randomwalks.pdf>.
9. All problems (for discussion sections) on the lecture notes.

Come ask Joan if you have any questions.