

## Mathematics 135.01 Summer 2006 Final Exam Information

The date and location of the final exam are

- Tuesday, August 8, 2006, 8:00 – 10:00 a.m.
- Malott Hall 206

Please ensure that you know where the location of the test room is and that you arrive at least 20 minutes before the exam is scheduled to start.

**YOU MAY BE ASKED TO SHOW YOUR CORNELL ID AT THE DOOR. YOU MAY NOT BE ALLOWED ENTRANCE INTO THE FINAL EXAM WITHOUT PROPER IDENTIFICATION.**

**Calculators:** You are permitted to use a calculator on this exam. Be sure that your calculator is working and has fresh batteries!

**Notes:** A formula page will be provided. Except for a calculator and this formula page, no other aids are allowed.

**Examinable Material:** The final exam will be comprehensive and will test all of the material covered in Math 135 this semester. There will, however, be an emphasis (albeit slight) on the material covered since the second prelim. This includes everything covered in lecture, and everything in Barr from

- Section 1.1: pages 1–32
- Section 1.2: pages 40–46
- Section 1.3: pages 48–55
- Section 2.1: pages 56–63; Summary on page 66
- Section 2.2: pages 69–80
- Section 2.3: pages 83–91
- Section 2.4: pages 96–105
- Section 2.5: pages 107–117
- Section 2.6: pages 120–130 (omit Example 2.6.10)
- Section 2.7: pages 134–140
- Section 2.8: pages 143–149
- Section 2.9: pages 158–168; Summary on page 171
- Section 3.1: pages 177–185
- Section 3.2: pages 197–199 (floor function, prime counting function, Euler’s phi-function)

- Section 3.4: pages 209–216; Summary on page 219
- Section 4.1: pages 243–251 (up-to-and-including Example 4.1.1); pages 254–260
- Section 4.2: pages 264–265 (everything before *The Subset-Sum Problem*)
- Section 4.3: pages 274–284
- Section 4.4: pages 286–293
- Section 4.5: pages 296–297 (everything before *The Discrete Logarithm Problem*); pages 299–301 (only *The Diffie-Hellman Protocol*);
- Summary on page 303–304
- Section 5.1: pages 322–325 (everything before *Technical Details of DES*); Summary on page 332
- Section 5.2: pages 333–340
- Section 5.3: pages 340–348
- Section 5.4: pages 349–354

**Your Grade:** Your final exam counts for 40%, your 2 prelims count for 20% each, your homework counts for 15%, and your participation counts for 5% of your final grade. However, course grades are subject to (upward) adjustment based on superior performance on the final exam.

**Web Resources:** The Math 135 web site, found at

<http://www.math.cornell.edu/~kozdron/Teaching/Cornell/135Summer06/> (Cornell)

<http://stat.math.uregina.ca/~kozdron/Teaching/Cornell/135Summer06/> (Regina).

contain links to all of the materials distributed in Math 135 this semester.