

STAT 2000: Final Exam Outline

Your final exam will take place on Wednesday, December 9, 2009!

The final exam is comprehensive and will cover material from Chapters 1 through 7, and Chapter 9 of the Moore, McCabe and Craig book. The following topics will **not** be tested on the final exam:

- Parts of Section 4.5: *Bayes's rule* and *Independence again* (pages 301–302).
- Entire Section 6.4: *Power and inference as a decision* (pages 401–410).
- Parts of Section 7.1: *The power of the t test* and *Inference for non-Normal populations* (pages 433–440).
- Parts of Section 7.2: *Software approximation for the degrees of freedom* and *The pooled two-sample t procedures* (pages 460–466).
- Entire Section 7.3: *Optional topics in comparing distributions* (pages 473–481).

The **FINAL EXAM** consists of:

1. **30 multiple choice questions**, based on online quizzes from Chapters 1 through 7, and Chapter 9 of the Moore, McCabe and Craig book (as specified above). Note: From Chapter 9, you should know how to calculate degrees of freedom, expected values, and how to use the χ^2 table.
2. **4 to 5 one- or two-part questions**, based on HW, class handouts, exams, etc.
3. **2 “long” (multi-part) statistical inference questions**, i.e., confidence intervals and hypothesis testing, based on Sections 6.1, 6.2, 6.3, and 7.1 without *The power of the t test* and *Inference for non-Normal populations*.

You will be given about 110 minutes to complete the final exam. The exam will be a closed-book exam, which means that you are not allowed to use the textbook or the lecture notes. You can only have one two-sided formula sheet. All required tables (such as for the Normal distribution) will be provided. You should bring your calculator!

See Homework Assignment 11 for suggestions how to prepare for the final exam!