

**Stat 130      Introduction to Statistical Reasoning      Exam 2 Preparation**

*When and where?*

The second exam will be given on Wednesday, May 10, in our usual classroom.

*What's covered?*

The exam covers chapters 10-16 of your text, dealing with Organizing Data. The outlines from days 17-25 accompany this material. You should also be familiar with the most fundamental ideas from earlier in the course that have come up again and again (e.g., identifying variables, observational study vs. experiment).

*What should I bring?*

You should definitely bring your text, your handouts and notes, and a calculator. You may also bring your quizzes and solutions to quizzes.

*What if I've missed something?*

You can download class outlines and quiz solutions from the web, and you can see me if you have not picked up a quiz.

*What kinds of questions should I expect?*

There will be a mixture of questions types. There will be many short answer questions (e.g., describe the shape of the histogram, describe the association in the scatterplot). Some questions will call for calculations (e.g., five-number summary,  $z$ -score). I would only ask you to construct a graph or perform a detailed calculation (e.g., standard deviation, correlation coefficient) in very small cases. Many questions will ask you to interpret results or explain some phenomenon; these will often be presented in the context of genuine data. In general, the questions should be of similar types to what you've answered in class examples, quizzes, homework questions, and the first exam.

*How should I study?*

- Read the review summary on pages 334-337 of your text for a concise but detailed listing of the important ideas that we have discussed.
- Re-read the "Statistics in Summary" sections at the end of each chapter.
- Review class outlines and examples.
- Work through the assigned homework questions, check answers in the book.
- Re-work quizzes, check solutions online.
- Look through and answer the review questions on pages 337-345 of your text.
- Answer additional questions from the end of the chapters of your text.
- Ask questions during class today, in office hours (3:10-4:30pm), via e-mail.

*Any other advice?*

- Prepare and organize a sheet or two of well-organized notes.
- Don't study less because it's an open-book exam!
- Plan not to use your book or notes too much.
- Focus on understanding, not memorization.
- Arrive on time, perhaps several minutes early.
- Read questions carefully.
- Pay attention to the context, both when reading questions and when writing answers.
- Write and explain your answers very clearly.
- Be cognizant of time constraint.
- Don't elaborate excessively.