

Course Syllabus

Statistics 220, Basic Statistics

Spring Quarter 2001

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Textbook

Freedman, D., Pisani, R., and Purves, R., *Statistics*, third edition, Norton, New York, 1998.

Class Schedule

Lecture: MWF 8:30 to 9:20 in EE1 105.

Sections (220): AA: TTh 8:30 to 9:20 in Communications Building 326 (Tomescu)
AB: TTh 8:30 to 9:20 in Communications Building B006 (Kang)
AC: TTh 8:30 to 9:20 in Thomson Hall 119 (Kozhevnikova)
AD: TTh 9:30 to 10:20 in Loew Hall 115 (Tomescu)
AE: TTh 9:30 to 10:20 in Clark Hall 220 (Kang)
AF: TTh 9:30 to 10:20 in Chemistry Library (Kozhevnikova)
AG: TTh 8:30 to 9:20 in Thomson Hall 134 (Drton)

Sections (301): AA: TTh 8:30 to 9:20 in Thomson Hall 134 (Drton)

Online Information

The information given in this syllabus is as of March 29, 2001. The following URL address takes you to the course webpage. Alternatively, go to the Statistics Department Webpage and click on 220 under courses.

<http://www.stat.washington.edu/mouli/s220.shtml>

Keep checking the website for news and links.

Learning Goals and Format of the Course

The learning goal in this class is to understand statistical reasoning and basic statistical terminology in society and academia. The lectures will therefore emphasize understanding the material over technical aspects. I will follow the text fairly closely, but some chapters and sections will be skipped. Your contributions are welcome. Although this is a large class, class participation is strongly encouraged. Please feel free to ask questions.

Quiz sections are mainly problem solving sessions. Usually, the TA will have problems to work through and discuss during the section, but you are encouraged to ask questions and bring problems of your own. We are available for further questions during our office hours.

Notes for the course are available at the Copy Center in the basement of Communications Building.

Schedule: We will cover the material in the book sequentially skipping a few chapters. Chapters 6, 15, 22 and 25 will be skipped. Chapter 7 will be assigned as reading only but I am happy to resolve your doubts during office hours. Chapters 26 through

28 will either be covered partially or in full depending on how the course proceeds through the quarter.

Homework

All homework exercises are **review exercises** from the **3rd edition** of the textbook. Homeworks are due during the Quiz Sections on Tuesdays. The 9 homework assignments can be found on the course webpage along with the due dates. Note that in most chapters there are also small sections with problems, labeled *Exercise Set A*, etc. These problems have answers in the back of the book, and they will not be assigned for homework.

Late homework will not be accepted.

You are encouraged to discuss with one another about your homework assignments if there is need for it but nothing beyond that is permissible! Do not hand in things that you do not understand. If you are stuck, see one of us during our office hours.

Each homework assignment is worth 25 points. However, the maximum number of points you can earn is 200. This means that you can skip one homework assignment, or you can do every assignment, but miss a few points on each of them, and still get maximum credit for homework (i.e., 200 points). If you have a valid reason for not turning in a homework assignment (e.g., a field trip or medical reasons), explain **in an e-mail message to your teaching assistant, with a copy (Cc) to the instructor**, if possible before the homework is due. In case we accept your excuse, you will be given credit for an extra homework at the average of your remaining homework scores when grades are computed.

All homework must be submitted on (appx.) 8.5"×11" paper **with your name, student number and quiz section you attend in the top righthand corner of every page**. You are encouraged to write on one side of the paper but this is not compulsory. However this makes grading easier for the grader who has to grade around 170 sets of homework each week and can only work to your advantage. Also please remember to staple your homework sheets. Solutions will generally be available online after the assignment is due.

Exams

Quizzes

All quizzes are open book exams. You should bring a calculator. People will not be allowed to pass calculators to each other. You do not need to bring a blue book or scratch paper.

Quizzes are 25 minutes to 40 minutes long and are during the TA section. The best two of your three quizzes count. See below for missed exam policy.

Quiz 1: Thursday, April 19

Quiz 2: Thursday, May 17

Quiz 3: Thursday, May 31

Solutions will be posted online and at the instructor's office.

For the syllabus for the quizzes see the course website.

Midterm Exam

The midterm exam is on Wednesday, May 2, during class. It is a closed book exam, but you will be allowed to bring two sheets (double-sided) of 8.5"×11" paper with notes. You are required to bring a picture ID and your student card with you, and you should bring a calculator. People will not be allowed to pass calculators to each other. You do not need to bring a blue book, scratch paper, or normal table. The latter will be provided if necessary.

The midterm (tentatively) covers Chapters 1 to 5 and 7 to 12 (Chapter 7 is a review of elementary material and will be assigned as reading only.) Solutions will be posted online and at the instructor's office.

Final Exam

As of today, the final exam is scheduled for Tuesday, June 5, 8:30 to 10:20am. The final is a closed book exam, but you will be allowed to bring two sheets (double-sided) of 8.5"×11" paper with notes. You are required to bring a picture ID and your student card with you, and you should bring a calculator. People will not be allowed to pass calculators to each other. You do not need to bring a blue book, scratch paper, or normal table. The latter will be provided if necessary.

The material covered for the final exam is that discussed in lectures, sections, and assignments throughout the quarter. Solutions will be posted online and at the instructor's office.

Sample exams will be available online prior to exams.

Missed Exams Policy

There are no early, late, or make-up exams. However, if you have a valid reason in accordance with the Final Examination guidelines posted at

<http://www.washington.edu/students/reg/examguide.html>,

you are encouraged to see the instructor **with documentation**. This has to be as soon as possible, but at least two days before the exam, except in situations where this is absolutely impossible. In case the instructor accepts your excuse, these will be the actions taken:

- Missed quiz with a valid reason and documentation: you will be given credit at the average score of your other quizzes.
- Missed midterm with a valid reason and documentation: the part of the grade based on the midterm will be redistributed over your quizzes and final.
- Missed final with a valid reason and documentation: you will be given an Incomplete that can only be removed by taking the final during Summer quarter, 2001, and only if the instructor of that course agrees. If you get a zero on the final exam (for example, you fail to show up for the exam), you will receive a grade of 0.0 for the course, regardless of how high your other grades are.

Grades

You will not be graded on a curve. Your final score for the class will be computed as a weighted average of your homework, quiz, midterm, and final exam scores.

Specifically, here is how grades are computed:

- Add all your homework scores. If the score is smaller than 200, record this as your homework score H . If your score is greater than or equal to 200, then $H = 200$.
- The maximum score on each of the three quizzes will be 25. Add your largest two quiz scores. Call this number Q .
- Call your midterm score M and your final score F . The maximum on the midterm will be 50, and the maximum on the final will be 100.
- Compute your total score T using the following formula:

$$T_{220} = 20 \times \frac{H}{200} + 20 \times \frac{Q}{50} + 20 \times \frac{M}{50} + 40 \times \frac{F}{100}$$

- Your total score should now be a number between 0 and 100. To convert your total score to a grade, use the following table:

from	to	you get	from	to	you get	from	to	you get	from	to	you get
0.00	37.49	0.0	54.00	55.49	1.5	67.50	68.99	2.4	81.00	82.49	3.3
37.50	43.49	0.7	55.50	56.99	1.6	69.00	70.49	2.5	82.50	83.99	3.4
43.50	44.99	0.8	57.00	58.49	1.7	70.50	71.99	2.6	84.00	85.49	3.5
45.00	46.49	0.9	58.50	59.99	1.8	72.00	73.49	2.7	85.50	86.99	3.6
46.50	47.99	1.0	–	–	1.9	73.50	74.99	2.8	87.00	88.49	3.7
48.00	49.49	1.1	60.00	62.99	2.0	–	–	2.9	88.50	89.99	3.8
49.50	50.99	1.2	63.00	64.49	2.1	75.00	77.99	3.0	–	–	3.9
51.00	52.49	1.3	64.50	65.99	2.2	78.00	79.49	3.1	90.00	100.00	4.0
52.50	53.99	1.4	66.00	67.49	2.3	79.50	80.99	3.2			

Disclaimer

The syllabus is intended to provide an overview of Statistics 220. You cannot claim any rights from it. In particular, due dates and exam dates may change. While the syllabus should be a fairly reliable guide for the quarter, official announcements are always those made in class.