

Columbia University
Department of IEOR

15. Dec 8

Two case studies

Introduction to Probability and Statistics
W3600, 4.0 pts , Fall, 2003

Prof. Steven Kou

312 Mudd Building

sk75@columbia.edu

www.columbia.edu/~sk75/w3600

Office Hours: M 2pm-4pm
TA: S. Athanassoglou
TA Office Hours: TBA
Lectures: MW 11:00am-12:15pm
Recitations: TF 2:30pm-3:30pm,
301 Mudd
Text: DeVore, 5th edition,
Probability and Statistics
for Engineering and Sci.

Prerequisites

Formally, only basic Calculus is required, but students who do not feel comfortable with summation of infinite series and integration (especially multivariate integrals) may find the going rough.

Approximate Schedule

Week	<i>Tropics</i>
1. Sept 3	Introduction
2. Sept 8, 10	§2.1-2.2
3. Sept 15, 17	§2.3-2.5, §3.1-3.3
4. Sept 22, 24	§3.4-3.6,
5. Sept 29, Oct 1	§3.7, 10/1 Mid. 1
6. Oct 6, 8	§4.1-4.2, §4.3-4.6
7. Oct 13, 15	§5.1-5.2
8. Oct 20, 22	§5.3-5.4
9. Oct 27, 29	§5.5, 10/29 Mid 2
10. Nov 5	§6.1
11. Nov 10, 12	§6.2, Ch.7, §9.1
12. Nov 17, 19	Ch. 8, §.9.2-9.5
13. Nov 24, 26	Ch. 14
14. Dec 1, 3	Ch. 12

Course Requirements and Grades

The final grade will be generated from five components:

Homework (10%)

Class Attendance (10%)

Midterm 1 (25%), Midterm 2 (25%)

Final (30%)

1. Homework

Homework assignments are *not* optional; some of the problems on the examinations may be taken from the homeworks. **No late homework will be accepted.** However, considering some unforeseeable difficulties, the lowest score of the homework assignments will be dropped.

2. Class Attendance

Because of the short duration of the course, students are expected to attend every class meeting. The class attendance *will affect* the final grade. If a student miss more than *three* classes, he or she would be advised to drop the course.

3. Midterms

There will be **two** in-class midterms, as shown on the class schedule. (If there is reason to change an exam date, you will have at least one week notice.)

The midterms will be in class, closed book. Your (fully charged) calculator is the **only** outside material to be used during the examination.

Crib sheets containing formulae **will be prepared by the instructor** and distributed during the exams, along with necessary statistical tables.

Remarks. (1) The exams cannot be taken at any time other than the regularly scheduled time.

(2) Bringing anything other than your calculator to the exams is consider to be academic

cheating, and will be reported to the appropriate authorities.

4. Final Examination

This will be a in-class, closed book examination, given under the same conditions as the Midterms. The final exam **will not be given at any time** other than the regularly scheduled time. The final will cover *material from the entire course*.

5. Calculator

Every student must have a calculator with charged batteries during exams. Calculators with log, exp, and trig functions can be purchased for less than \$30.00. **Programmable calculators are not allowed in the exams.** THE INSTRUCTOR AND TA ARE NOT RESPONSIBLE FOR CALCULATORS IN ANY EXAMS.

6. Final Notes

- You are responsible for everything that transpires in class and for obtaining any written material that is distributed. Handouts contain important information. Make certain that you read them, understand them, and file them for future reference.
- In such a large class, everyone should be treated fairly and equally. Therefore, we do not give any special treatments to anyone unless the university regulations indicate that you are entitled to a special consideration; **otherwise, it is unfair to the other students.**
- **Neither makeup examination nor alternative examination will be given,** unless we get a written letter from the Office of the Dean of Students (i) saying that we *have to* give you an alternative or makeup examination, and (ii) *citing* in the letter the proper university regulations governing the case.