

SYLLABUS FOR MATH/STAT 511, SECTION 1, MATHEMATICAL PROBABILITY

Class Time. TTh 11:00 am – 12:15 pm

Class Room. LC 405

Instructor. Daniel Dix

Office Hours. MWF 10-11 am. Please see me after class, or call my office or send e-mail, to make an appointment that will fit both of our schedules. I will be happy to give as much help as you need.

Office and Office Phone. LeConte 400E, 777-4320

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Course Web-Page. www.math.sc.edu/~dix/teach/511.s10.html.

Text:. *Mathematical Statistics with Applications* by Wackerly, Mendenhall, and Scheaffer, seventh edition.

Material to be covered. Portions of chapters 2–5 and 7 of the text.

Learning Outcomes. A successful student will master concepts and solve problems concerning probability and independence; discrete and continuous random variables; joint, marginal, and conditional densities, moment generating functions; laws of large numbers; binomial, Poisson, gamma, and the univariate and bivariate Normal distributions.

Cell Phone Policy. They must be turned off during all classes, including quizzes and exams.

Homework. Homework problems will be assigned at every class meeting, and will be collected at the beginning of the next class. These (perhaps selected problems) will be graded and returned. You may work in groups, but each student's solutions should be written up independently; no copying! No late homework accepted. A few of the lowest homework grades will be dropped. Solutions of the homework will be posted on the web-page before they are covered by a quiz or exam.

Quizzes. 10-15 minute quizzes will be given at the beginning of class about once a week. No makeup quizzes will be given. A few of the lowest quiz grades will be dropped.

Exams. There will be three one hour exams given during class on the following dates:

- (1) Tuesday, Feb 9. (The drop date is Monday, Feb. 22.)
- (2) Thursday, Mar. 18.
- (3) Thursday, Apr. 15.

No makeup exams will be given unless the student contacts the instructor prior to the beginning of the scheduled exam time and provides proof of a medical or other emergency as an excuse.

Final Exam. There will be a two hour comprehensive final exam given on Wednesday, May 5, at 9am in the class room. It will cover everything, including the material discussed on the last few class meetings.

Grading System. Your final score (out of 100 total points) for the course will be computed as follows:

- (1) Homework average will count 10%.
- (2) Quiz average will count 15%.
- (3) Average of three hour exam scores will count 45%.
- (4) Final exam will count 30%.

There will be no "curve". From this 100 point figure your grade will be determined by the scale:

A: 90–100 B: 80–89 C: 65–79 D: 50–65 F: 0–49

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