MATH 214A - PROBABILITY
FALL 2011

Instructor: Peter Wong

Class Meeting: MW [1]: 8:00 - 9:20 a.m. (Hathorn 100)

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Textbook: *John E. Freund's Mathematical Statistics with Applications* (7th ed.) by I. Miller and M. Miller, Pearson Prentice hall, New Jersey, 2004.

Office hours: MW: 11:00 am - 12:00 pm, or by appointment

Grading: Attendence/Class Participation - 5%; homework - 30%; 2 mid-terms @20% each; Final Exam - 25%

Prerequisites: Math 106

This is a calculus-based introduction to Probability. We develop necessary mathematical tools for the theory of probability as well as for certain applications to Statistics. We plan to cover most of the first seven chapters of the text.

Note on homework and on exams:

While group work is encouraged in general, the writing up of your homework assignment must be done on your own. *In the event that you discuss certain homework problems with other classmates, make sure you (and the person(s) with whom you discussed the assignment) write the names of your collaborators in your assignment before you hand it in.*

The dates for the exams are (1) Exam I - October 12; (2) Exam II - November 16; and (3) Final Exam - Thursday 8:00 am December 15.

Homework problems from the text will be assigned frequently and reading assignment will be given at the end of every lecture. Be sure to read ahead of time before coming to the next class. **Late homework may NOT receive any credit.** I will post the HW problems on my page: `http://www.bates.edu/~pwong/teaching/Fall2011/Math214A/Math214A.html`.

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[1]except first week WF

Tentative Syllabus:-

week 9/7: §§1.1 - 1.3, §§2.1 - 2.3; **HW#1** - due on September 12

week 9/12: §§2.4 - 2.8; **HW#2** - due on September 19

week 9/19: §§3.1 - 3.4; **HW#3** - due on September 26

week 9/26: functions of several variables, §3.5; **HW#4** - due on October 3

week 10/3: §§3.6 - 3.7, 4.1 - 4.2; **HW#5** - due on October 10

week 10/10: §§4.3, **Exam I** - October 12;

week 10/17: §§4.4, **Fall Recess** - October 19 - 23;

week 10/24: §§4.5 - 4.7; **HW#6** - due on November 2

week 10/31: §§5.1 - 5.4, 5.7; **HW#7** - due on November 9

week 11/7: §§6.1 - 6.4; **HW#8** - due on November 14

week 11/14: §§6.5 - 6.6; **Exam II** - November 16; **HW#9** - due on November 28

Thanksgiving Recess - November 21 - 27

week 11/28: §§7.1 - 7.2; **HW#10** - due on December 5

week 12/5: §§7.2 - 7.3.