

STAT 1152 – “Introduction to Mathematical Statistics”

Spring 2012

Tuesday-Thursday 2:30—3:45 P.M.
Cathedral of Learning, Room 324

Instructor: Sungkyu Jung

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Office Hours: Wednesday 10:00-11:30 or by appointment

Textbook: “*same as STAT1151*” I. Miller and M. Miller, *John E. Freund’s Mathematical Statistics with Applications*, Seventh Edition, Pearson Prentice Hall, NJ

Syllabus: This course is continued from STAT1151, “Introduction to Probability,” and introduces the elementary concepts of statistical inference, which are essential in appreciation of advanced statistical methods. A brief review of probability theory will be provided in the beginning. Topics include functions of random variable, sampling distributions, decision criterion, estimation, hypothesis testing, regression, analysis of variance, and non-parametric methods.

Chapters 1-7 (review), Chapters 8-12, and selected topics from Chapters 13-16.

Prerequisite: Calculus (Differentiation and Integration) and STAT 1151 (Probability)

Grade Distribution:

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| 1. Homework | 15% |
| 2. Midterm | 35% |
| 3. Final (cumulative) | 50% |

Homework:

- Assigned weekly, collection for each week is due Thursday of the following week.
- No late homework will be accepted. No electronic copy will be accepted. Missed homework will receive a grade of zero. The lowest homework will be dropped.
- Show all work neatly on letter-sized papers. Clearly label each problem and be sure to circle the final answer. Write your full name in ink at the top of all homework pages. Homework pages must be stapled together. *A homework violating any of the above will receive a grade of zero.*

Exams:

- All exams are required and there will be no make-up exams.
- No books or notes are permitted in exams.
- Missed exams will receive a grade of zero.

Date of Examinations:

Midterm: Tuesday, February 28
Final: TBA