MAT 652: Probability and Statistics II (Spring, 2013)

**Course Description**: The course will cover central ideas of statistical inference: point/interval estimation and hypothesis testing. The primary objective of the course is to learn basic concepts and theory of statistical inference. Topics covered include principles of data reduction, methods of finding and evaluating estimators, and methods of finding and evaluating tests.

**Instructor**

Professor H. Hyune-Ju Kim, 304E Carnegie
443-1494, 443-1471(message)
hjkim@syr.edu
Class Hours  TTh 11:00 a.m. -12:20 p.m.
Office Hours  M 11a.m.-12 a.m., T 1:00 p.m.-2:00 p.m.

**Text**: *Statistical Inference*, by George Casella and Roger L. Berger, 2nd edition, Duxbury

**Grading Policy**: Midterm Exam (35%), Final Exam (45 %), Homework (10 %), Reading Assignment and presentation (10%)

**Prerequisite**: Calculus, MAT 651 or equivalent

**Course Schedule**: Chapters 5-9 and some additional topics will be covered.

** Midterm (in Class): March 7 (Thursday)

** Final Exam:  May 3 (Friday), 5:15p.m.-7:15p.m. (possibly until 8:15 p.m.)

** Readings of selected articles will be assigned as the course progresses. A short report is required for each reading assignment. In the middle of the semester, students are asked to choose a topic among recently developed inferential methods, and will be asked to present a summary of their research during the last two classes.

**References**

E.L.Lehmann (1983), Theory of Point Estimation, Wiley
E.L.Lehmann (1988), Testing Statistical Hypothesis, Wiley
Dudewicz and Mishra (1988), Modern Mathematical Statistics, Wiley

**Students with Disabilities**: If you believe that you need accommodations for a disability, please contact the Office of Disability Services (ODS), [http://disabilityservices.syr.edu](http://disabilityservices.syr.edu), located in Room 309 of 804 University Avenue, or call 315-443-4498 for an appointment to
discuss your needs and the process for requesting accommodations. ODS is responsible coordinating disability-related accommodations and will issue students with documented disabilities Accommodation Authorization Letters, as appropriate. Since accommodations may require early planning and generally are not provided retroactively, please contact ODS as soon as possible. You are also welcome to contact me privately to discuss your academic needs although I cannot arrange for disability-related accommodations.

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