STAT 431: Overview of Mathematical Statistics

Date: Fall 2008
Time: TTh 1:00 pm – 2:20 pm
Location: Duncan Hall 1046

Instructor: Dr. John A. Dobelman
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Duncan Hall 2098: 713 348 5681
Office Hours: By appointment. Wednesday 1-3 p.m.

Course Website: www.stat.rice.edu/~dobelman (see courses)

Teaching Assistant (TA):
Mr. David Kahle (Lead) david.j.kahle@rice.edu
Ms. Soyeon (Sophia) Kim sk15@rice.edu
Duncan Hall 1041: 713 348 6057 Duncan Hall 1036: 713 348 3825
Office Hours: By appointment Office Hours: By appointment

Course Description:
This course is designed to provide an overview of mathematical statistics at an advanced undergraduate or graduate level. Background in a calculus-based statistics course is assumed. Topics include random variables, distributions, transformations, moment generating functions, common families of distributions, independence, sampling distributions, the basics of estimation theory, hypothesis testing and Bayesian inference.

Course Content: Chapters 1 – 12 of text and possible special topics. Topics/chapters include


**Grading:** 35% assignments, 30% midterm examination, 30% final examination, and 5% course participation. Late policy: 20% penalty for HW turned in by next class; no credit for later than this. The instructor will not be able to print out emailed homework. You might be able to negotiate with the grader.

**Attendance:**
Students are expected to attend class. If a student misses a class, then he or she is responsible for keeping up with the course material and finding out if any exams, quizzes, or homeworks have been assigned or scheduled.

**Rice Honor Code:**
All examinations are conducted under pledged conditions. Homework is also to be pledged. It may be worked on with other class members but each student must submit their own work for credit. You should indicate with whom you worked when applicable. Note that the use of prior years’ and other solutions to text exercises is considered UNAUTHORIZED AID and is not permitted under the Rice Honor code, and infractions shall be reported.

**Disabilities:**
Any student with a documented disability needing academic adjustments or accommodations is requested to speak with me during the first two weeks of class. All discussions will remain confidential. Students with disabilities should also contact Disability Support Services in the Ley Student Center. Further information is available at [http://dss.rice.edu/](http://dss.rice.edu/).