Statistics 426
Course Information

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Office Hours
Tues. 4:00-5:30
Wed., 11:30-1:00.

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Fri. 9:00-11:00
In 441 West Hall

Course Goals:
To introduce students to the principal ideas of statistical theory, especially, estimation, testing, confidence, non-parametric methods, and Bayesian inference, and to illustrate them with important applications, notably the several sample problem and linear regression.

Major Topics (brief syllabus):
Review of probability; sampling and simulation; estimation; large sample approximations; testing and confidence; comparing samples; linear regression; Bayesian inference.

Text: Mathematical Statistics and Data Analysis, by John Rice.

Course Website: Accessible from my homepage.

Prerequisite: Math/Stat 425

Grading
Six Problem Sets 40%
Midterm 25%
Final 35%

Problem Set #1. From the text: 1.61, 1.64, 1.74, 1.75; 2.10, 2.15, 2.25, 2.34, 2.39, 2.52, 2.53; 3.12, 3.15, 3.56, 3.57; 4.5, 4.6. Do all problems; write out solutions to any five of the even numbered problems and turn them in on September 19.