

**STATISTICS AND DATA ANALYSIS, 2005 FALL
SYLLABUS
Peter Lakner**

Textbook: Hildebrand, Ott, and Gray, Basic Statistical Ideas for Managers, second edition, Duxbury, 2005.

Sept. 21: Populations, samples, surveys, data summary.

Homework 1 is assigned.

Reading: Chapters 1,2.

Sept. 28: Probabilities, conditional probabilities, independence, random variables, distributions.

Homework 1 is due.

Homework 2 is assigned.

Reading: Chapters 3 and 4.

Oct. 5: The binomial and normal distributions, the distribution of the sample mean.

Homework 2 is due.

Homework 3 is assigned.

Reading: 5.1, 5.2, 5.4, and chapter 6.

Oct. 12: No class.

Oct 19: Confidence interval for mean and proportion, sample size, the t-distribution, review

Homework 3 is due.

Homework 4 is assigned

Reading: Chapter 7

Oct. 26: MIDTERM EXAM

Nov.2: Hypothesis testing for mean and proportion, p-values, type I and type II errors.

Homework 4 is due.

Homework 5 is assigned.

Reading: Chapter 8

Nov. 9: Simple linear regression, correlation, inferences about the slope.

Homework 5 is due.

Homework 6 is assigned.

Reading: Chapter 11

Nov. 16: Multiple regression.

Homework 6 is due.

Homework 7 is assigned.

Reading: Parts of Chapter 12 to be assigned in class.

Nov. 23: No class.

Nov. 30: Multiple regression, review

Homework 7 is due.

Homework 8 is assigned.

Reading: Parts of Chapter 13 to be assigned in class.

Dec. 7: FINAL EXAM.

Homework 8 is due.

Course grade:

Midterm exam: 40%

Final exam: 40%

Homeworks: 20%