

STATISTICS 211
“CONCEPTS OF STATISTICS”
FALL 2005
SYLLABUS

NOTE: All quizzes will be written during the tutorial.
Final will be arranged by the registrar’s office.

Schedule for quizzes and midterm

Quiz 1 September 27th
Quiz 2 October 11th
Quiz 3 October 25th
Midterm November 9th (written during regular scheduled class)
Quiz 4 November 22nd
Quiz 5 December 6th

No classes on Monday, October 10th and November 10th (Thursday) and November 11th (Friday).
Classes end on December 9th (Friday).

Topics Covered

- (1) Completely randomized designs, observational studies, confounding factors (**chp 1 & 2**)
- (2) Variable, histograms, shape, scale (**Chp 3**)
- (3) Measures of central tendency and dispersion normal curve, standard units, tables, problems, measurement error (**Chp 4,5,6**)
- (4) Probability trees, box models, conditional probability, multiplication and addition rules, independence (**chp 13, 14**)
- (5) Combinations, binomial probabilities, (**chp 15**)
- (6) Expected values, standard errors, laws of sums and averages, normal approximation to binomial (**chp 16, 17, 18**)
- (7) Confidence intervals for averages and percentages (**chp 20,21,23**)
- (8) Testing hypotheses, for the mean, t-test (**chp 26**)
- (9) Two-sample test for means, percentages (**chp 27**)
- (10) Chi-square test for goodness-of-fit, independence (**chp 28**)
- (11) Issues related to tests of hypotheses (**chp 29**)
- (12) Correlation and regression (**chp 8, 9, 10, 11,12**)