

## Statistics 100 --- Spring 2008

### Course Outline

- Lec 1:** histogram, measures of center and dispersion  
(Chapter 2.1-2.6)
- Lec 2:** descriptives continued
- Lec 3:** probability (chapter 3.1-3.5)
- 
- Lec 4:** more probability, conditional probability
- Lec 5:** Bayes Rule (supplemental material)
- Lec 6:** random variables, discrete probability (chapter 3.7)
- 
- Lec 7:** the binomial distribution (chapter 3.8)
- Lec 8:** the Poisson distribution, (supplemental reading)
- Lec 9:** **midterm 1 (April 18, 2008)**
- 
- Lec 10:** the normal distribution (chapter 4.1-4.3)
- Lec 11:** sampling distributions (chapter 5.1-5.3)
- Lec 12:** central limit theorem (chapter 5.1-5.3)
- 
- Lec 13:** estimation, confidence intervals (6.1-6.6)
- Lec 14:** estimation continued, t-distribution
- Lec 15:** estimation of the difference of two means (chapter 7.1-7.3)
- 
- Lec 16:** hypothesis testing about a mean (chapter 7.1-7.10)
- Lec 17:** hypothesis tests comparing two means (chapter 7.1-7.10)
- Lec 18:** hypothesis testing, type I and type II error
- 
- Lec 19:** **midterm 2 (May 12, 2008)**
- Lec 20:** power and sample size (chapter 7.1-7.10)
- Lec 21:** paired t-test (chapter 9.1-9.2)
- 
- Lec 22:** two-sample comparison of proportions (chapter 10.1-10.3)
- Lec 23:** chi-square test (chapter 10.5-10.7)
- Lec 24:** analysis of variance (chapter 11.1-11.5)
- 
- Lec 25:** Memorial Day
- Lec 26:** analysis of variance (chapter 11.1-11.5)
- Lec 27:** regression (chapter 12)
- 
- Lec 28:** regression
- Lec 29:** review

**Final exam: June 7 at 1:00pm – 3:00pm**