

ST 210: Spring 2010
Topics covered for Exam III
(M. Mulekar)

Chapter 8:

- Estimation process, estimator, and estimate
- Point estimation versus interval estimation
- Point estimate
- Confidence interval
- Confidence level
- Margin of error or bound on error
- Student's t distribution
- Confidence interval for proportion
- Confidence interval for mean
- Interpreting confidence interval
- Interpreting confidence level
- Effect of sample size, level of significance, and standard deviation on the length of the interval
- Choosing the sample size.

Chapter 9:

- Testing of hypothesis
- Null hypothesis
- Alternative hypothesis
- Level of significance
- Type I and Type II errors and their consequences
- Rejection & non-rejection regions
- Observed significance level or p-value
- Interpreting p-value
- Test for population proportion
- Test for population mean