| Week 1 Friday, January 7 | | Introduction; Review of Stat 251 Final Exam |
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| Week 2 Monday, January 10 Wednesday, January 12 Friday, January 14 | | What is a Statistic? (Ch 1); Sampling Distributions (Ch 7) Estimators, Statistics, Parameters (§8.1, §8.2, §8.3) Evaluating Estimators (§8.4); Confidence Intervals (§8.5) |
| Week 3 Monday, January 17 Wednesday, January 19 Friday, January 21 | Assignment #1 Due | Large-Sample Confidence Intervals (§8.6) Selecting the Sample Size (§8.7) Small-Sample Confidence Intervals (§8.8) |
| Week 4 Monday, January 24 Wednesday, January 26 Friday, January 28 | Assignment #2 Due | Confidence Intervals for σ^2 (§8.9); Summary (§8.10); Point Estimators (§9.1); Relative Efficiency (§9.2) Consistency, Sufficency, Rao-Blackwell (§9.3, §9.4, §9.5) The Method of Moments (§9.6) |
| Week 5 Monday, January 31 Wednesday, February 2 Friday, February 4 | Assignment #3 Due | The Method of Maximum Likelihood (§9.7) More Examples (§9.6, §9.7); Summary (§9.9) Midterm Review |
| Week 6 Monday, February 7 Wednesday, February 9 Friday, February 11 | MIDTERM #1 | Hypothesis Testing ($\S10.1$); Elements of a Statistical Test ($\S10.2$) Common Large-Sample Tests ($\S10.3$) |
| Week 7 Monday, February 14 Wednesday, February 16 Friday, February 18 | Assignment #4 Due | Type II Error and Finding the Z-Test Sample Size (§10.4) Hypothesis Test–Confidence Interval Duality (§10.5, §10.6, §10.7) Small-Sample Hypothesis Testing (§10.8) |

| Week 8 Monday, February 21 Wednesday, February 23 Friday, February 25 | | NO CLASS NO CLASS NO CLASS |
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| Week 9 Monday, February 28 Wednesday, March 2 Friday, March 4 | Assignment #5 Due | Testing Hypotheses Concerning Variances (§10.9) Power of Tests and Neyman-Pearson (§10.10); Summary (§10.12) Linear Statistical Models (§11.1, §11.2) |
| Week 10 Monday, March 7 Wednesday, March 9 Friday, March 11 | Assignment #6 Due | The Method of Least Squares (§11.3) Simple Linear Regression (§11.4) Inference Concerning β_i (§11.5) |
| Week 11 Monday, March 14 Wednesday, March 16 Friday, March 18 | Assignment #7 Due Read §11.9 | Inference Concerning Linear Functions of β_i (§11.6) Predicting a Particular Value of Y (§11.7) Correlation (§11.8); Summary (§11.15) |
| Week 12 Monday, March 21 Wednesday, March 23 Friday, March 25 | Assignment #8 Due | Considerations in Designing Experiments (Ch 12) NO CLASS (SSP) NO CLASS |
| Week 13 Monday, March 28 Wednesday, March 30 Friday, April 1 | MIDTERM #2 | The Analysis of Variance (§13.1, §13.2) ANOVA for a One-Way Layout (§13.3, §13.4) |
| Week 14 Monday, April 4 Wednesday, April 6 Friday, April 8 | Assignment #9 Due Read §14.6 | One-Way Layout: A Statistical Model (§13.5); Estimation (§13.7) χ^2 Goodness-of-Fit Test (§14.1, §14.2, §14.3) Contingency Tables (§14.4, §14.5); Summary (§14.7) |
| Week 15 Monday, April 11 Wednesday, April 13 | Assignment #10 Due | Signed Test for Matched Pairs (§15.1, §15.3) Final Exam Review and Course Evaluations |