

Schedule

A week-by-week breakdown of the material.

Week 1 (09/07-9/11)

Day 1 Basic Terminology¹

Day 2 Lab 1²

Day 3 Visualizing Variables³

Day 4 Percentiles⁴

Week 2 (09/14-09/18)

Day 1 Measures of Center⁵

Measures of Spread⁶

Day 2 Lab 2⁷

Day 3 Linear Transformations⁸

Density Curves⁹

Day 4 The Normal Distribution¹⁰

Week 3 (09/21-09/25)

Day 1 Relationships between two variables¹¹

Day 2 Lab 3¹²

Day 3 Scatterplots and Correlation¹³

Day 4 General Theory on Modeling and Data Fitting¹⁴

¹[notes/basic_terminology.html](https://www.stat.columbia.edu/gelman/notes/basic_terminology.html)

²[labs/1.html](https://www.stat.columbia.edu/gelman/labs/1.html)

³[notes/visualizing_distributions.html](https://www.stat.columbia.edu/gelman/notes/visualizing_distributions.html)

⁴[notes/percentiles.html](https://www.stat.columbia.edu/gelman/notes/percentiles.html)

⁵[notes/measures_center.html](https://www.stat.columbia.edu/gelman/notes/measures_center.html)

⁶[notes/measures_spread.html](https://www.stat.columbia.edu/gelman/notes/measures_spread.html)

⁷[labs/2.html](https://www.stat.columbia.edu/gelman/labs/2.html)

⁸[notes/linear_transformations.html](https://www.stat.columbia.edu/gelman/notes/linear_transformations.html)

⁹[notes/density_curves.html](https://www.stat.columbia.edu/gelman/notes/density_curves.html)

¹⁰[notes/normal_distribution.html](https://www.stat.columbia.edu/gelman/notes/normal_distribution.html)

¹¹[notes/relationships.html](https://www.stat.columbia.edu/gelman/notes/relationships.html)

¹²[labs/3.html](https://www.stat.columbia.edu/gelman/labs/3.html)

¹³[notes/scatterplot_correlation.html](https://www.stat.columbia.edu/gelman/notes/scatterplot_correlation.html)

¹⁴[notes/modeling_general.html](https://www.stat.columbia.edu/gelman/notes/modeling_general.html)

Week 4 (09/28-10/02)

Day 1 Linear Models and Regression Lines¹⁵

Day 2 Lab 4¹⁶

Day 3 The question of causation¹⁷

Day 4 Introduction to Probability¹⁸

Week 5 (10/05-10/09)

Day 1 Review

Day 2 **MIDTERM** (study guide¹⁹)

Day 3 Introduction to Probability (cont)²⁰

Day 4 Independent Events²¹

Week 6 (10/12-10/16)

Day 1 Probability rules²²

Day 2 Catchup

Day 3 Tree Diagrams²³

Day 4 Tree Diagrams (cont)²⁴

Week 7 (10/19-10/23)

Day 1 Fall Break

Day 2 Probability Practice

Day 3 Probability Practice

Day 4 Probability Practice

Week 8 (10/26-10/30)

Day 1 Random Variables²⁵

Day 2 Lab Practice

¹⁵[notes/linear_regression.html](#)

¹⁶[labs/4.html](#)

¹⁷[notes/correlation_causation.html](#)

¹⁸[notes/probability_intro.html](#)

¹⁹[notes/midterm1_study_guide.html](#)

²⁰[notes/probability_intro.html](#)

²¹[notes/independent_events.html](#)

²²[notes/probability_rules.html](#)

²³[notes/decision_trees.html](#)

²⁴[notes/decision_trees.html](#)

²⁵[notes/random_variables.html](#)

Day 3 The Binomial Setting and Distribution²⁶

Day 4 Mean and Standard Deviation of Random Variables²⁷

Week 9 (11/02-11/06)

Day 1 Mean and Standard Deviation of Random Variables (cont)²⁸

Day 2 Combining Random Variables²⁹

Day 3 Combining Random Variables (cont)³⁰

Day 4 Review / Catchup

Week 10 (11/09-11/13)

Day 1 **MIDTERM** (study guide³¹)

Day 2 Lab: Work on Projects³²

Day 3 Mean and Standard Deviation of the Binomial³³

Day 4 Binomial: Approximating by Normal³⁴

Week 11 (11/16-11/20)

Day 1 The Sample Mean / IID Setting³⁵

Day 2 Work on Projects

Day 3 The Sample Mean / IID Setting (cont)³⁶

Day 4 Inference I: Confidence Intervals³⁷

Week 12 (11/23-11/27)

Day 1 Inference I: Confidence Intervals (cont)³⁸

Day 2 THANKSGIVING

Day 3 THANKSGIVING

Day 4 THANKSGIVING

²⁶[notes/binomial.html](#)

²⁷[notes/rv_mean.html](#)

²⁸[notes/rv_mean.html](#)

²⁹[notes/rv_combine.html](#)

³⁰[notes/rv_combine.html](#)

³¹[notes/midterm2_study_guide.html](#)

³²[labs/projectAnalysisSteps.html](#)

³³[notes/binomial_mean.html](#)

³⁴[notes/binomial_mean.html](#)

³⁵[notes/iid_setting.html](#)

³⁶[notes/iid_setting.html](#)

³⁷[notes/confidence_intervals.html](#)

³⁸[notes/confidence_intervals.html](#)

Week 13 (12/01-12/04)

Day 1 Inference II: Hypothesis Tests³⁹

Day 2 Inference II: Hypothesis Tests (cont)⁴⁰

Day 3 TBA

Day 4 TBA

Week 14 (12/07-12/11)

Day 1 TBA

Day 2 TBA

Day 3 TBA

Day 4 TBA

³⁹[notes/hypothesis_tests.html](#)

⁴⁰[notes/hypothesis_tests.html](#)