

Schedule

A week-by-week breakdown of the material.

Week 1 (09/04-9/08)

Day 1 A taste of statistics¹

Basic Terminology²

Data Collection³

HW1 due Fri⁴

Day 2 Visualizing Variables⁵

Percentiles⁶

Quiz 1 due Sun⁷

Day 3 Lab 1⁸

Week 2 (09/11-09/15)

Day 1 Measures of Center⁹

Day 2 Measures of Spread¹⁰

Day 3 Linear Transformations¹¹

Lab 2¹²

Week 3 (09/18-09/22)

Day 1 Density Curves¹³

The Normal Distribution¹⁴

¹[notes/taste.html](#)

²[notes/basic_terminology.html](#)

³[notes/data_collection.html](#)

⁴[assignments/hw1.html](#)

⁵[notes/visualizing_distributions.html](#)

⁶[notes/percentiles.html](#)

⁷<https://moodle.hanover.edu/mod/quiz/view.php?id=5177>

⁸<https://hanoverstatslabs.github.io/resources/labs/Lab1Instructions.html>

⁹[notes/measures_center.html](#)

¹⁰[notes/measures_spread.html](#)

¹¹[notes/linear_transformations.html](#)

¹²[labs/2.html](#)

¹³[notes/density_curves.html](#)

¹⁴[notes/normal_distribution.html](#)

Day 2 The Normal Distribution (cont)¹⁵

Day 3 Lab 3¹⁶

Week 4 (09/25-09/29)

Day 1 Relationships between two variables¹⁷

Scatterplots and Correlation¹⁸

Day 2 General Theory on Modeling and Data Fitting¹⁹

Day 3 Linear Models and Regression Lines²⁰

Lab 4²¹

Week 5 (10/02-10/06)

Day 1 The question of causation²²

Day 2 **MIDTERM** (study guide²³)

Day 3 Introduction to Probability²⁴

Week 6 (10/09-10/13)

Day 1 Conditional Probability²⁵

Day 2 Probability rules²⁶

Day 3 Independent Events²⁷

¹⁵[notes/normal_distribution.html](#)

¹⁶[labs/3.html](#)

¹⁷[notes/relationships.html](#)

¹⁸[notes/scatterplot_correlation.html](#)

¹⁹[notes/modeling_general.html](#)

²⁰[notes/linear_regression.html](#)

²¹[labs/4.html](#)

²²[notes/correlation_causation.html](#)

²³[notes/midterm1_study_guide.html](#)

²⁴[notes/probability_intro.html](#)

²⁵[notes/probability_conditional.html](#)

²⁶[notes/probability_rules.html](#)

²⁷[notes/independent_events.html](#)

Week 7 (10/16-10/20)

Day 1 Tree Diagrams²⁸

Day 2 Random Variables²⁹

Day 3 The Binomial Setting and Distribution³⁰

Week 8 (10/23-10/27)

Day 1 Fall Break

Day 2 The Binomial Setting and Distribution³¹

Day 3 Lab: Work on Projects³²

Week 9 (10/30-11/03)

Day 1 Mean and Standard Deviation of Random Variables³³

Day 2 Work on Projects³⁴

Day 3 Work on Projects³⁵

Week 10 (11/06-11/10)

Day 1 Combining Random Variables³⁶

Day 2 Mean and Standard Deviation of the Binomial³⁷

Day 3 **MIDTERM** (study guide³⁸)

²⁸[notes/decision_trees.html](#)

²⁹[notes/random_variables.html](#)

³⁰[notes/binomial.html](#)

³¹[notes/binomial.html](#)

³²[labs/projectAnalysisSteps.html](#)

³³[notes/rv_mean.html](#)

³⁴[labs/projectAnalysisSteps.html](#)

³⁵[labs/projectAnalysisSteps.html](#)

³⁶[notes/rv_combine.html](#)

³⁷[notes/binomial_mean.html](#)

³⁸[notes/midterm2_study_guide.html](#)

Week 11 (11/13-11/17)

Day 1 Binomial: Approximating by Normal³⁹

Day 2 The Sample Mean / IID Setting⁴⁰

Day 3 The Sample Mean / IID Setting (cont)⁴¹

Week 12 (11/20-11/24)

Day 1 Inference I: Confidence Intervals⁴²

Day 2 THANKSGIVING

Day 3 THANKSGIVING

Week 13 (11/27-12/01)

Day 1 Inference I: Confidence Intervals (cont)⁴³

Day 2 Inference II: Hypothesis Tests⁴⁴

Day 3 Inference II: Hypothesis Tests (cont)⁴⁵

Week 14 (12/04-12/08)

Day 1 TBA

Day 2 TBA

Day 3 Presentations

³⁹[notes/binomial_mean.html](#)

⁴⁰[notes/iid_setting.html](#)

⁴¹[notes/iid_setting.html](#)

⁴²[notes/confidence_intervals.html](#)

⁴³[notes/confidence_intervals.html](#)

⁴⁴[notes/hypothesis_tests.html](#)

⁴⁵[notes/hypothesis_tests.html](#)