

Schedule

A week-by-week breakdown of the material.

Week 1 (09/04-9/08)

Day 1 A taste of statistics¹

Basic Terminology²

HW1 due Fri³

Day 2 Visualizing Variables⁴

Quiz 1 due Sun⁵

Day 3 Lab 1⁶

Week 2 (09/11-09/15)

Day 1 Percentiles⁷

Measures of Center⁸

Measures of Spread⁹

HW2 due Fri¹⁰

Quiz 2 due Thu¹¹

Day 2 Data Collection¹²

Linear Transformations¹³

HW3 due Mon¹⁴

Day 3 Lab 2¹⁵

¹[notes/taste.html](#)

²[notes/basic_terminology.html](#)

³[assignments/hw1.html](#)

⁴[notes/visualizing_distributions.html](#)

⁵<https://moodle.hanover.edu/mod/quiz/view.php?id=5177>

⁶<https://hanoverstatslabs.github.io/resources/labs/Lab1Instructions.html>

⁷[notes/percentiles.html](#)

⁸[notes/measures_center.html](#)

⁹[notes/measures_spread.html](#)

¹⁰[assignments/hw2.html](#)

¹¹<https://moodle.hanover.edu/mod/quiz/view.php?id=5178>

¹²[notes/data_collection.html](#)

¹³[notes/linear_transformations.html](#)

¹⁴[assignments/hw3.html](#)

¹⁵<https://hanoverstatslabs.github.io/resources/labs/Lab2Instructions.html>

Week 3 (09/18-09/22)

Day 1 Standardized scores¹⁶

Day 2 Density Curves¹⁷

The Normal Distribution¹⁸

HW4 due Wed¹⁹

Day 3 Lab 3²⁰

Week 4 (09/25-09/29)

Day 1 The Normal Distribution (cont)²¹

Day 2 Relationships between two variables²²

Scatterplots and Correlation²³

Day 3 General Theory on Modeling and Data Fitting²⁴

Lab 4²⁵

Week 5 (10/02-10/06)

Day 1 Linear Models and Regression Lines²⁶

The question of causation²⁷

Day 2 **MIDTERM** (study guide²⁸)

Day 3 Introduction to Probability²⁹

¹⁶[notes/linear_transformations.html](#)

¹⁷[notes/density_curves.html](#)

¹⁸[notes/normal_distribution.html](#)

¹⁹[assignments/hw4.html](#)

²⁰<https://hanoverstatslabs.github.io/resources/labs/Lab2Instructions.html>

²¹[notes/normal_distribution.html](#)

²²[notes/relationships.html](#)

²³[notes/scatterplot_correlation.html](#)

²⁴[notes/modeling_general.html](#)

²⁵[labs/4.html](#)

²⁶[notes/linear_regression.html](#)

²⁷[notes/correlation_causation.html](#)

²⁸[notes/midterm1_study_guide.html](#)

²⁹[notes/probability_intro.html](#)

Week 6 (10/09-10/13)

Day 1 Conditional Probability³⁰

Day 2 Probability rules³¹

Day 3 Independent Events³²

Week 7 (10/16-10/20)

Day 1 Tree Diagrams³³

Day 2 Random Variables³⁴

Day 3 The Binomial Setting and Distribution³⁵

Week 8 (10/23-10/27)

Day 1 Fall Break

Day 2 The Binomial Setting and Distribution³⁶

Day 3 Lab: Work on Projects³⁷

Week 9 (10/30-11/03)

Day 1 Mean and Standard Deviation of Random Variables³⁸

Day 2 Work on Projects³⁹

Day 3 Work on Projects⁴⁰

³⁰[notes/probability_conditional.html](#)

³¹[notes/probability_rules.html](#)

³²[notes/independent_events.html](#)

³³[notes/decision_trees.html](#)

³⁴[notes/random_variables.html](#)

³⁵[notes/binomial.html](#)

³⁶[notes/binomial.html](#)

³⁷[labs/projectAnalysisSteps.html](#)

³⁸[notes/rv_mean.html](#)

³⁹[labs/projectAnalysisSteps.html](#)

⁴⁰[labs/projectAnalysisSteps.html](#)

Week 10 (11/06-11/10)

Day 1 Combining Random Variables⁴¹

Day 2 Mean and Standard Deviation of the Binomial⁴²

Day 3 **MIDTERM** (study guide⁴³)

Week 11 (11/13-11/17)

Day 1 Binomial: Approximating by Normal⁴⁴

Day 2 The Sample Mean / IID Setting⁴⁵

Day 3 The Sample Mean / IID Setting (cont)⁴⁶

Week 12 (11/20-11/24)

Day 1 Inference I: Confidence Intervals⁴⁷

Day 2 THANKSGIVING

Day 3 THANKSGIVING

Week 13 (11/27-12/01)

Day 1 Inference I: Confidence Intervals (cont)⁴⁸

Day 2 Inference II: Hypothesis Tests⁴⁹

Day 3 Inference II: Hypothesis Tests (cont)⁵⁰

Week 14 (12/04-12/08)

Day 1 TBA

Day 2 TBA

Day 3 Presentations

⁴¹[notes/rv_combine.html](#)

⁴²[notes/binomial_mean.html](#)

⁴³[notes/midterm2_study_guide.html](#)

⁴⁴[notes/binomial_mean.html](#)

⁴⁵[notes/iid_setting.html](#)

⁴⁶[notes/iid_setting.html](#)

⁴⁷[notes/confidence_intervals.html](#)

⁴⁸[notes/confidence_intervals.html](#)

⁴⁹[notes/hypothesis_tests.html](#)

⁵⁰[notes/hypothesis_tests.html](#)