

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](https://moodle.hanover.edu/mod/quiz/view.php?id=5177)

²[notes/basic_terminology.html](https://moodle.hanover.edu/mod/quiz/view.php?id=5177)

³[assignments/hw1.html](https://moodle.hanover.edu/mod/quiz/view.php?id=5177)

⁴[notes/visualizing_distributions.html](https://moodle.hanover.edu/mod/quiz/view.php?id=5177)

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

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

⁷[notes/percentiles.html](https://moodle.hanover.edu/mod/quiz/view.php?id=5178)

⁸[notes/measures_center.html](https://moodle.hanover.edu/mod/quiz/view.php?id=5178)

⁹[notes/measures_spread.html](https://moodle.hanover.edu/mod/quiz/view.php?id=5178)

¹⁰[assignments/hw2.html](https://moodle.hanover.edu/mod/quiz/view.php?id=5178)

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

¹²[notes/data_collection.html](https://moodle.hanover.edu/mod/quiz/view.php?id=5178)

¹³[notes/linear_transformations.html](https://moodle.hanover.edu/mod/quiz/view.php?id=5178)

¹⁴[assignments/hw3.html](https://moodle.hanover.edu/mod/quiz/view.php?id=5178)

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

Week 3 (09/18-09/22)

Day 1 Standardized scores¹⁶

Day 2 Density Curves¹⁷

HW4 due Wed¹⁸

Day 3 Lab 3¹⁹

Week 4 (09/25-09/29)

Day 1 The Normal Distribution²⁰

Day 2 Relationships between two variables²¹

Scatterplots and Correlation²²

Day 3 Lab 4²³

Week 5 (10/02-10/06)

Day 1 General Theory on Modeling and Data Fitting²⁴

Day 2 **MIDTERM** (study guide²⁵)

Day 3 Linear Models and Regression Lines²⁶

The question of causation²⁷

Week 6 (10/09-10/13)

Day 1 Introduction to Probability²⁸

Day 2 Conditional Probability²⁹

Probability rules³⁰

¹⁶[notes/linear_transformations.html](#)

¹⁷[notes/density_curves.html](#)

¹⁸[assignments/hw4.html](#)

¹⁹<https://hanoverstatslabs.github.io/resources/labs/Lab3Instructions.html>

²⁰[notes/normal_distribution.html](#)

²¹[notes/relationships.html](#)

²²[notes/scatterplot_correlation.html](#)

²³<https://hanoverstatslabs.github.io/resources/labs/Lab4Instructions.html>

²⁴[notes/modeling_general.html](#)

²⁵[notes/midterm1_study_guide.html](#)

²⁶[notes/linear_regression.html](#)

²⁷[notes/correlation_causation.html](#)

²⁸[notes/probability_intro.html](#)

²⁹[notes/probability_conditional.html](#)

³⁰[notes/probability_rules.html](#)

Day 3 Independent Events³¹

Week 7 (10/16-10/20)

Day 1 Tree Diagrams³²

Day 2 Random Variables³³

Day 3 The Binomial Setting and Distribution³⁴

Week 8 (10/23-10/27)

Day 1 Fall Break

Day 2 The Binomial Setting and Distribution³⁵

Day 3 Lab: Work on Projects³⁶

Week 9 (10/30-11/03)

Day 1 Mean and Standard Deviation of Random Variables³⁷

Day 2 Work on Projects³⁸

Day 3 Work on Projects³⁹

Week 10 (11/06-11/10)

Day 1 Combining Random Variables⁴⁰

Day 2 Mean and Standard Deviation of the Binomial⁴¹

Day 3 **MIDTERM** (study guide⁴²)

³¹[notes/independent_events.html](#)

³²[notes/decision_trees.html](#)

³³[notes/random_variables.html](#)

³⁴[notes/binomial.html](#)

³⁵[notes/binomial.html](#)

³⁶[labs/projectAnalysisSteps.html](#)

³⁷[notes/rv_mean.html](#)

³⁸[labs/projectAnalysisSteps.html](#)

³⁹[labs/projectAnalysisSteps.html](#)

⁴⁰[notes/rv_combine.html](#)

⁴¹[notes/binomial_mean.html](#)

⁴²[notes/midterm2_study_guide.html](#)

Week 11 (11/13-11/17)

Day 1 Binomial: Approximating by Normal⁴³

Day 2 The Sample Mean / IID Setting⁴⁴

Day 3 The Sample Mean / IID Setting (cont)⁴⁵

Week 12 (11/20-11/24)

Day 1 Inference I: Confidence Intervals⁴⁶

Day 2 THANKSGIVING

Day 3 THANKSGIVING

Week 13 (11/27-12/01)

Day 1 Inference I: Confidence Intervals (cont)⁴⁷

Day 2 Inference II: Hypothesis Tests⁴⁸

Day 3 Inference II: Hypothesis Tests (cont)⁴⁹

Week 14 (12/04-12/08)

Day 1 TBA

Day 2 TBA

Day 3 Presentations

⁴³[notes/binomial_mean.html](#)

⁴⁴[notes/iid_setting.html](#)

⁴⁵[notes/iid_setting.html](#)

⁴⁶[notes/confidence_intervals.html](#)

⁴⁷[notes/confidence_intervals.html](#)

⁴⁸[notes/hypothesis_tests.html](#)

⁴⁹[notes/hypothesis_tests.html](#)