

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

Day 2 Data Collection¹¹

Day 3 Linear Transformations¹²

Lab 2¹³

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=5177)

⁸[notes/measures_center.html](https://moodle.hanover.edu/mod/quiz/view.php?id=5177)

⁹[notes/measures_spread.html](https://moodle.hanover.edu/mod/quiz/view.php?id=5177)

¹⁰[assignments/hw2.html](https://moodle.hanover.edu/mod/quiz/view.php?id=5177)

¹¹[notes/data_collection.html](https://moodle.hanover.edu/mod/quiz/view.php?id=5177)

¹²[notes/linear_transformations.html](https://moodle.hanover.edu/mod/quiz/view.php?id=5177)

¹³[labs/2.html](https://moodle.hanover.edu/mod/quiz/view.php?id=5177)

Week 3 (09/18-09/22)

Day 1 Density Curves¹⁴

The Normal Distribution¹⁵

Day 2 The Normal Distribution (cont)¹⁶

Day 3 Lab 3¹⁷

Week 4 (09/25-09/29)

Day 1 Relationships between two variables¹⁸

Scatterplots and Correlation¹⁹

Day 2 General Theory on Modeling and Data Fitting²⁰

Day 3 Linear Models and Regression Lines²¹

Lab 4²²

Week 5 (10/02-10/06)

Day 1 The question of causation²³

Day 2 **MIDTERM** (study guide²⁴)

Day 3 Introduction to Probability²⁵

Week 6 (10/09-10/13)

Day 1 Conditional Probability²⁶

Day 2 Probability rules²⁷

Day 3 Independent Events²⁸

¹⁴[notes/density_curves.html](#)

¹⁵[notes/normal_distribution.html](#)

¹⁶[notes/normal_distribution.html](#)

¹⁷[labs/3.html](#)

¹⁸[notes/relationships.html](#)

¹⁹[notes/scatterplot_correlation.html](#)

²⁰[notes/modeling_general.html](#)

²¹[notes/linear_regression.html](#)

²²[labs/4.html](#)

²³[notes/correlation_causation.html](#)

²⁴[notes/midterm1_study_guide.html](#)

²⁵[notes/probability_intro.html](#)

²⁶[notes/probability_conditional.html](#)

²⁷[notes/probability_rules.html](#)

²⁸[notes/independent_events.html](#)

Week 7 (10/16-10/20)

Day 1 Tree Diagrams²⁹

Day 2 Random Variables³⁰

Day 3 The Binomial Setting and Distribution³¹

Week 8 (10/23-10/27)

Day 1 Fall Break

Day 2 The Binomial Setting and Distribution³²

Day 3 Lab: Work on Projects³³

Week 9 (10/30-11/03)

Day 1 Mean and Standard Deviation of Random Variables³⁴

Day 2 Work on Projects³⁵

Day 3 Work on Projects³⁶

Week 10 (11/06-11/10)

Day 1 Combining Random Variables³⁷

Day 2 Mean and Standard Deviation of the Binomial³⁸

Day 3 MIDTERM (study guide³⁹)

²⁹[notes/decision_trees.html](#)

³⁰[notes/random_variables.html](#)

³¹[notes/binomial.html](#)

³²[notes/binomial.html](#)

³³[labs/projectAnalysisSteps.html](#)

³⁴[notes/rv_mean.html](#)

³⁵[labs/projectAnalysisSteps.html](#)

³⁶[labs/projectAnalysisSteps.html](#)

³⁷[notes/rv_combine.html](#)

³⁸[notes/binomial_mean.html](#)

³⁹[notes/midterm2_study_guide.html](#)

Week 11 (11/13-11/17)

Day 1 Binomial: Approximating by Normal⁴⁰

Day 2 The Sample Mean / IID Setting⁴¹

Day 3 The Sample Mean / IID Setting (cont)⁴²

Week 12 (11/20-11/24)

Day 1 Inference I: Confidence Intervals⁴³

Day 2 THANKSGIVING

Day 3 THANKSGIVING

Week 13 (11/27-12/01)

Day 1 Inference I: Confidence Intervals (cont)⁴⁴

Day 2 Inference II: Hypothesis Tests⁴⁵

Day 3 Inference II: Hypothesis Tests (cont)⁴⁶

Week 14 (12/04-12/08)

Day 1 TBA

Day 2 TBA

Day 3 Presentations

⁴⁰[notes/binomial_mean.html](#)

⁴¹[notes/iid_setting.html](#)

⁴²[notes/iid_setting.html](#)

⁴³[notes/confidence_intervals.html](#)

⁴⁴[notes/confidence_intervals.html](#)

⁴⁵[notes/hypothesis_tests.html](#)

⁴⁶[notes/hypothesis_tests.html](#)