

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 The Normal Distribution (cont)²¹

Day 3 Lab 4²²

HW5 due Fri²³

Week 5 (10/02-10/06)

Day 1 Relationships between two variables²⁴

HW6 due Mon²⁵

Day 2 **MIDTERM** (study guide²⁶)

Day 3 Lab 5²⁷

Week 6 (10/09-10/13)

Day 1 Scatterplots and Correlation²⁸

General Theory on Modeling and Data Fitting²⁹

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/normal_distribution.html](#)

²²<https://hanoverstatslabs.github.io/resources/labs/Lab4Instructions.html>

²³[assignments/hw5.html](#)

²⁴[notes/relationships.html](#)

²⁵[assignments/hw6.html](#)

²⁶[notes/midterm1_study_guide.html](#)

²⁷<https://hanoverstatslabs.github.io/resources/labs/Lab5Instructions.html>

²⁸[notes/scatterplot_correlation.html](#)

²⁹[notes/modeling_general.html](#)

Day 2 Linear Models and Regression Lines³⁰

The question of causation³¹

HW7 due Mon³²

Day 3 Lab 6³³

Week 7 (10/16-10/20)

Day 1 Introduction to Probability³⁴

Conditional Probability³⁵

Day 2 Probability rules³⁶

Independent Events³⁷

Tree Diagrams³⁸

Day 3 Random Variables³⁹

Week 8 (10/23-10/27)

Day 1 Fall Break

Day 2 The Binomial Setting and Distribution⁴⁰

Day 3 Lab: Work on Projects⁴¹

Week 9 (10/30-11/03)

Day 1 Mean and Standard Deviation of Random Variables⁴²

Day 2 Work on Projects⁴³

Day 3 Work on Projects⁴⁴

³⁰[notes/linear_regression.html](#)

³¹[notes/correlation_causation.html](#)

³²[assignments/hw7.html](#)

³³<https://hanoverstatslabs.github.io/resources/labs/Lab6Instructions.html>

³⁴[notes/probability_intro.html](#)

³⁵[notes/probability_conditional.html](#)

³⁶[notes/probability_rules.html](#)

³⁷[notes/independent_events.html](#)

³⁸[notes/decision_trees.html](#)

³⁹[notes/random_variables.html](#)

⁴⁰[notes/binomial.html](#)

⁴¹[labs/projectAnalysisSteps.html](#)

⁴²[notes/rv_mean.html](#)

⁴³[labs/projectAnalysisSteps.html](#)

⁴⁴[labs/projectAnalysisSteps.html](#)

Week 10 (11/06-11/10)

Day 1 Combining Random Variables⁴⁵

Day 2 Mean and Standard Deviation of the Binomial⁴⁶

Day 3 **MIDTERM** (study guide⁴⁷)

Week 11 (11/13-11/17)

Day 1 Binomial: Approximating by Normal⁴⁸

Day 2 The Sample Mean / IID Setting⁴⁹

Day 3 The Sample Mean / IID Setting (cont)⁵⁰

Week 12 (11/20-11/24)

Day 1 Inference I: Confidence Intervals⁵¹

Day 2 THANKSGIVING

Day 3 THANKSGIVING

Week 13 (11/27-12/01)

Day 1 Inference I: Confidence Intervals (cont)⁵²

Day 2 Inference II: Hypothesis Tests⁵³

Day 3 Inference II: Hypothesis Tests (cont)⁵⁴

Week 14 (12/04-12/08)

Day 1 TBA

Day 2 TBA

Day 3 Presentations

⁴⁵[notes/rv_combine.html](#)

⁴⁶[notes/binomial_mean.html](#)

⁴⁷[notes/midterm2_study_guide.html](#)

⁴⁸[notes/binomial_mean.html](#)

⁴⁹[notes/iid_setting.html](#)

⁵⁰[notes/iid_setting.html](#)

⁵¹[notes/confidence_intervals.html](#)

⁵²[notes/confidence_intervals.html](#)

⁵³[notes/hypothesis_tests.html](#)

⁵⁴[notes/hypothesis_tests.html](#)