

Schedule

A week-by-week breakdown of the material.

Week 1 (01/07-1/11)

Day 1 A taste of statistics¹

Basic Terminology²

Day 2 HW1 due Fri³

Visualizing Variables⁴

Quiz 1 due Sun⁵

Day 3 Lab 1⁶

Week 2 (01/14-09/18)

Day 1 Percentiles⁷

Measures of Center⁸

Measures of Spread⁹

HW2 due¹⁰

Quiz 2 due Mon of week 3¹¹

Day 2 No class

Day 3 Lab 2¹²

Week 3 (01/21-01/25)

Day 1 Data Collection¹³

HW3 due¹⁴

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=14001>

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=14002>

¹²<https://hanoverstatslabs.github.io/resources/labs/Lab2Instructions.html>

¹³[notes/data_collection.html](#)

¹⁴[assignments/hw3.html](#)

Day 2 Linear Transformations¹⁵

Standardized scores¹⁶

Day 3 Lab 3¹⁷

Week 4 (01/28-02/01)

Day 1 Density Curves¹⁸

The Normal Distribution¹⁹

Quiz 3²⁰

Day 2 Class cancelled

Day 3 Lab 4²¹

HW4 due²²

Week 5 (02/04-02/08)

Day 1 Relationships between two variables²³

HW5 due²⁴

Day 2 Scatterplots and Correlation²⁵

HW6 due²⁶

Day 3 **MIDTERM** (study guide²⁷)

Week 6 (02/11-02/15)

Day 1 Scatterplots and Correlation (cont)²⁸

General Theory on Modeling and Data Fitting²⁹

Quiz 4³⁰

¹⁵[notes/linear_transformations.html](#)

¹⁶[notes/linear_transformations.html](#)

¹⁷<https://hanoverstatslabs.github.io/resources/labs/Lab3Instructions.html>

¹⁸[notes/density_curves.html](#)

¹⁹[notes/normal_distribution.html](#)

²⁰<https://moodle.hanover.edu/mod/quiz/view.php?id=14005>

²¹<https://hanoverstatslabs.github.io/resources/labs/Lab4Instructions.html>

²²[assignments/hw4.html](#)

²³[notes/relationships.html](#)

²⁴[assignments/hw5.html](#)

²⁵[notes/scatterplot_correlation.html](#)

²⁶[assignments/hw6.html](#)

²⁷[notes/midterm1_study_guide.html](#)

²⁸[notes/scatterplot_correlation.html](#)

²⁹[notes/modeling_general.html](#)

³⁰<https://moodle.hanover.edu/mod/quiz/view.php?id=14010>

Day 2 Linear Models and Regression Lines³¹

Day 3 HW7 due³²

Lab 5³³

Week 7 (02/18-02/22)

Day 1 The question of causation³⁴

Quiz 5³⁵

Day 2 Introduction to Probability³⁶

Day 3 Lab 6³⁷

HW8 due³⁸

Week 8 (02/25-03/01)

WINTER BREAK

Week 9 (03/04-03/08)

Day 1 Introduction to Probability³⁹

Conditional Probability⁴⁰

Day 2 Conditional Probability⁴¹

Probability rules⁴²

Quiz 6⁴³

Day 3 Lab 7⁴⁴

³¹[notes/linear_regression.html](#)

³²[assignments/hw7.html](#)

³³<https://hanoverstatslabs.github.io/resources/labs/Lab5Instructions.html>

³⁴[notes/correlation_causation.html](#)

³⁵<https://moodle.hanover.edu/mod/quiz/view.php?id=14011>

³⁶[notes/probability_intro.html](#)

³⁷<https://hanoverstatslabs.github.io/resources/labs/Lab6Instructions.html>

³⁸[assignments/hw8.html](#)

³⁹[notes/probability_intro.html](#)

⁴⁰[notes/probability_conditional.html](#)

⁴¹[notes/probability_conditional.html](#)

⁴²[notes/probability_rules.html](#)

⁴³<https://moodle.hanover.edu/mod/quiz/view.php?id=14014>

⁴⁴<https://hanoverstatslabs.github.io/resources/labs/Lab7Instructions.html>

Week 10 (03/11-03/15)

Day 1 Independent Events⁴⁵

Tree Diagrams⁴⁶

HW9 due⁴⁷

Quiz 7⁴⁸

Day 2 Review

HW10 due⁴⁹

HW11 due⁵⁰

Day 3 MIDTERM (study guide⁵¹)

Week 11 (03/18-03/22)

Day 1 Random Variables⁵²

HW10 due⁵³

Day 2 The Binomial Setting and Distribution⁵⁴

Day 3 Lab 8⁵⁵

HW12 due⁵⁶

Week 12 (03/25-03/29)

Day 1 Mean and Standard Deviation of Random Variables⁵⁷

Quiz 8⁵⁸

Day 2 Combining Random Variables⁵⁹

HW13 due⁶⁰

Day 3 Project work

⁴⁵[notes/independent_events.html](#)

⁴⁶[notes/decision_trees.html](#)

⁴⁷[assignments/hw9.html](#)

⁴⁸<https://moodle.hanover.edu/mod/quiz/view.php?id=14018>

⁴⁹[assignments/hw10.html](#)

⁵⁰[assignments/hw11.html](#)

⁵¹[notes/midterm2_study_guide.html](#)

⁵²[notes/random_variables.html](#)

⁵³[assignments/hw10.html](#)

⁵⁴[notes/binomial.html](#)

⁵⁵<https://hanoverstatslabs.github.io/resources/labs/Lab8Instructions.html>

⁵⁶[assignments/hw12.html](#)

⁵⁷[notes/rv_mean.html](#)

⁵⁸<https://moodle.hanover.edu/mod/quiz/view.php?id=14020>

⁵⁹[notes/rv_combine.html](#)

⁶⁰[assignments/hw13.html](#)

Week 13 (04/01-04/05)

Day 1 Mean and Standard Deviation of the Binomial⁶¹

Binomial: Approximating by Normal⁶²

Quiz 9⁶³

Day 2 The Sample Mean / IID Setting⁶⁴

HW14 due⁶⁵

Quiz 10⁶⁶

Day 3 Inference I: Confidence Intervals⁶⁷

HW15 due⁶⁸

Week 14 (04/08-04/12)

Day 1 Inference II: Hypothesis Tests⁶⁹

HW16 due⁷⁰

Quiz 11⁷¹

Day 2 TBA

HW17 due⁷²

Day 3 Presentations

⁶¹[notes/binomial_mean.html](#)

⁶²[notes/binomial_mean.html](#)

⁶³<https://moodle.hanover.edu/mod/quiz/view.php?id=14023>

⁶⁴[notes/iid_setting.html](#)

⁶⁵[assignments/hw14.html](#)

⁶⁶<https://moodle.hanover.edu/mod/quiz/view.php?id=14026>

⁶⁷[notes/confidence_intervals.html](#)

⁶⁸[assignments/hw15.html](#)

⁶⁹[notes/hypothesis_tests.html](#)

⁷⁰[assignments/hw16.html](#)

⁷¹<https://moodle.hanover.edu/mod/quiz/view.php?id=14028>

⁷²[assignments/hw17.html](#)