

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

Linear Transformations¹⁴

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[notes/linear_transformations.html](#)

HW3 due¹⁵

Day 2 Standardized scores¹⁶

Density Curves¹⁷

The Normal Distribution¹⁸

Quiz 3¹⁹

Day 3 Lab 3²⁰

Week 4 (01/28-02/01)

Day 1 The Normal Distribution (cont)²¹

HW4 due²²

Day 2 Relationships between two variables²³

Day 3 Lab 4²⁴

HW5 due²⁵

Week 5 (02/04-02/08)

Day 1 HW6 due²⁶

Day 2 Scatterplots and Correlation²⁷

Quiz 4²⁸

Day 3 **MIDTERM** (study guide²⁹)

¹⁵[assignments/hw3.html](#)

¹⁶[notes/linear_transformations.html](#)

¹⁷[notes/density_curves.html](#)

¹⁸[notes/normal_distribution.html](#)

¹⁹<https://moodle.hanover.edu/mod/quiz/view.php?id=14005>

²⁰<https://hanoverstatslabs.github.io/resources/labs/Lab3Instructions.html>

²¹[notes/normal_distribution.html](#)

²²[assignments/hw4.html](#)

²³[notes/relationships.html](#)

²⁴<https://hanoverstatslabs.github.io/resources/labs/Lab4Instructions.html>

²⁵[assignments/hw5.html](#)

²⁶[assignments/hw6.html](#)

²⁷[notes/scatterplot_correlation.html](#)

²⁸<https://moodle.hanover.edu/mod/quiz/view.php?id=14010>

²⁹[notes/midterm1_study_guide.html](#)

Week 6 (02/11-02/15)

Day 1 General Theory on Modeling and Data Fitting³⁰

Linear Models and Regression Lines³¹

HW7 due³²

Day 2 Linear Models and Regression Lines (cont)³³

Day 3 Lab 5³⁴

Week 7 (02/18-02/22)

Day 1 The question of causation³⁵

Quiz 5³⁶

Day 2 Introduction to Probability³⁷

Day 3 Lab 6³⁸

Week 8 (02/25-03/01)

WINTER BREAK

Week 9 (03/04-03/08)

Day 1 Conditional Probability³⁹

HW8 due⁴⁰

Day 2 Probability rules⁴¹

Independent Events⁴²

Quiz 6⁴³

Day 3 Lab 7⁴⁴

³⁰[notes/modeling_general.html](#)

³¹[notes/linear_regression.html](#)

³²[assignments/hw7.html](#)

³³[notes/linear_regression.html](#)

³⁴<https://hanoverstatslabs.github.io/resources/labs/Lab5Instructions.html>

³⁵[notes/correlation_causation.html](#)

³⁶<https://moodle.hanover.edu/mod/quiz/view.php?id=14011>

³⁷[notes/probability_intro.html](#)

³⁸<https://hanoverstatslabs.github.io/resources/labs/Lab6Instructions.html>

³⁹[notes/probability_conditional.html](#)

⁴⁰[assignments/hw8.html](#)

⁴¹[notes/probability_rules.html](#)

⁴²[notes/independent_events.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 Tree Diagrams⁴⁵

HW9 due⁴⁶

Quiz 7⁴⁷

Day 2 Review

HW11 due⁴⁸

Day 3 MIDTERM (study guide⁴⁹)

Week 11 (03/18-03/22)

Day 1 Random Variables⁵⁰

HW10 due⁵¹

Day 2 Random Variables (cont)⁵²

Day 3 Lab 8⁵³

HW12 due⁵⁴

Week 12 (03/25-03/29)

Day 1 The Binomial Setting and Distribution⁵⁵

Quiz 8⁵⁶

Day 2 Mean and Standard Deviation of Random Variables⁵⁷

HW13 due⁵⁸

Day 3 Project work

⁴⁵[notes/decision_trees.html](#)

⁴⁶[assignments/hw9.html](#)

⁴⁷<https://moodle.hanover.edu/mod/quiz/view.php?id=14018>

⁴⁸[assignments/hw11.html](#)

⁴⁹[notes/midterm2_study_guide.html](#)

⁵⁰[notes/random_variables.html](#)

⁵¹[assignments/hw10.html](#)

⁵²[notes/random_variables.html](#)

⁵³<https://hanoverstatslabs.github.io/resources/labs/Lab8Instructions.html>

⁵⁴[assignments/hw12.html](#)

⁵⁵[notes/binomial.html](#)

⁵⁶<https://moodle.hanover.edu/mod/quiz/view.php?id=14020>

⁵⁷[notes/rv_mean.html](#)

⁵⁸[assignments/hw13.html](#)

Week 13 (04/01-04/05)

Day 1 Combining Random Variables⁵⁹

Mean and Standard Deviation of the Binomial⁶⁰

Binomial: Approximating by Normal⁶¹

Quiz 9⁶²

Day 2 The Sample Mean / IID Setting⁶³

HW14 due⁶⁴

Quiz 10⁶⁵

Day 3 Inference I: Confidence Intervals⁶⁶

HW15 due⁶⁷

Week 14 (04/08-04/12)

Day 1 Inference II: Hypothesis Tests⁶⁸

HW16 due⁶⁹

Quiz 11⁷⁰

Day 2 TBA

HW17 due⁷¹

Day 3 Presentations

⁵⁹[notes/rv_combine.html](#)

⁶⁰[notes/binomial_mean.html](#)

⁶¹[notes/binomial_mean.html](#)

⁶²<https://moodle.hanover.edu/mod/quiz/view.php?id=14023>

⁶³[notes/iid_setting.html](#)

⁶⁴[assignments/hw14.html](#)

⁶⁵<https://moodle.hanover.edu/mod/quiz/view.php?id=14026>

⁶⁶[notes/confidence_intervals.html](#)

⁶⁷[assignments/hw15.html](#)

⁶⁸[notes/hypothesis_tests.html](#)

⁶⁹[assignments/hw16.html](#)

⁷⁰<https://moodle.hanover.edu/mod/quiz/view.php?id=14028>

⁷¹[assignments/hw17.html](#)