Schedule

A week-by-week breakdown of the material.

Week 1 (09/04-9/08)

Day 1 A taste of statistics[1]

Basic Terminology[2]

HW1 due[3]

Day 2 Visualizing Variables[4]

Quiz 1 due Sun[5]

Day 3 Lab 1[6]

Week 2 (09/11-09/15)

Day 1 Percentiles[7]

Measures of Center[8]

Measures of Spread[9]

HW2 due[10]

Quiz 2 due Thu[11]

Day 2 Data Collection[12]

Linear Transformations[13]

HW3 due[14]

Day 3 Lab 2[15]

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[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=5177
[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=5178
[12] notes/data_collection.html
[13] notes/linear_transformations.html
[14] assignments/hw3.html
[15] https://hanoverstatslabs.github.io/resources/labs/Lab2Instructions.html

Week 3 (09/18-09/22)

Day 1 Standardized scores[16]

Day 2 Density Curves[17]

HW4 due[18]

Day 3 Lab 3[19]

Week 4 (09/25-09/29)

Day 1 The Normal Distribution[20]

Day 2 The Normal Distribution (cont)[21]

Day 3 Lab 4[22]

HW5 due[23]

Week 5 (10/02-10/06)

Day 1 Relationships between two variables[24]

HW6 due[25]

Day 2 **MIDTERM** (study guide[26])

Day 3 Lab 5[27]

Week 6 (10/09-10/13)

Day 1 Scatterplots and Correlation[28]

Day 2 General Theory on Modeling and Data Fitting[29]

Linear Models and Regression Lines[30]

[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
[30] notes/linear_regression.html

HW7 due[31]

Day 3 Lab 6[32]

Week 7 (10/16-10/20)

Day 1 Linear Models and Regression Lines (cont)[33]
Day 2 The question of causation[34]
Day 3 Lab 7[35]

Week 8 (10/23-10/27)

Day 1 Fall Break

Day 2 Introduction to Probability[36]

Day 3 Conditional Probability[37]

HW8 due[38]

Week 9 (10/30-11/03)

Day 1 Probability rules[39]

Independent Events[40]

Day 2 Tree Diagrams[41]

HW9 due[42]

Day 3 Lab 8[43]

[31] assignments/hw7.html
[32] https://hanoverstatslabs.github.io/resources/labs/Lab6Instructions.html
[33] notes/linear_regression.html
[34] notes/correlation_causation.html
[35] https://hanoverstatslabs.github.io/resources/labs/Lab7Instructions.html
[36] notes/probability_intro.html
[37] notes/probability_conditional.html
[38] assignments/hw8.html
[39] notes/probability_rules.html
[40] notes/independent_events.html
[41] notes/decision_trees.html
[42] assignments/hw9.html
[43] https://hanoverstatslabs.github.io/resources/labs/Lab8Instructions.html

Week 10 (11/06-11/10)

Day 1 Random Variables[44]

HW10 due[45]

Day 2 Review

HW11 due[46]

Day 3 **MIDTERM** (study guide[47])

Week 11 (11/13-11/17)

Day 1 Random Variables (cont)[48]

Day 2 The Binomial Setting and Distribution[49]

Day 3 Project work

HW12 due[50]

Week 12 (11/20-11/24)

Day 1 Mean and Standard Deviation of Random Variables[51]

Combining Random Variables[52]

HW13 due[53]

Day 2 THANKSGIVING

Day 3 THANKSGIVING

Week 13 (11/27-12/01)

Day 1 Mean and Standard Deviation of the Binomial[54]

Binomial: Approximating by Normal[55]

[44] notes/random_variables.html
[45] assignments/hw10.html
[46] assignments/hw11.html
[47] notes/midterm2_study_guide.html
[48] notes/random_variables.html
[49] notes/binomial.html
[50] assignments/hw12.html
[51] notes/rv_mean.html
[52] notes/rv_combine.html
[53] assignments/hw13.html
[54] notes/binomial_mean.html
[55] notes/binomial_mean.html

Day 2 The Sample Mean / IID Setting[56]

Day 3 Inference I: Confidence Intervals[57]

Week 14 (12/04-12/08)

Day 1 Inference II: Hypothesis Tests[58]
Day 2 TBA
Day 3 Presentations

[56] notes/iid_setting.html
[57] notes/confidence_intervals.html
[58] notes/hypothesis_tests.html