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 Fri[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 Fri[10]

Quiz 2 due Thu[11]

Day 2 Data Collection[12]

Linear Transformations[13]

HW3 due Mon[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 Wed[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]

Relationships between two variables[22]

Day 3 Lab 4[23]

HW5 due Fri[24]

Week 5 (10/02-10/06)

Day 1 Scatterplots and Correlation[25]

HW6 due Mon[26]

Day 2 **MIDTERM** (study guide[27])

Day 3 General Theory on Modeling and Data Fitting[28]

Linear Models and Regression Lines[29]

The question of causation[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] notes/relationships.html
[23] https://hanoverstatslabs.github.io/resources/labs/Lab4Instructions.html
[24] assignments/hw5.html
[25] notes/scatterplot_correlation.html
[26] assignments/hw6.html
[27] notes/midterm1_study_guide.html
[28] notes/modeling_general.html
[29] notes/linear_regression.html
[30] notes/correlation_causation.html

Week 6 (10/09-10/13)

Day 1 Introduction to Probability[31]

Day 2 Conditional Probability[32]
Probability rules[33]

Day 3 Independent Events[34]

Week 7 (10/16-10/20)

Day 1 Tree Diagrams[35]

Day 2 Random Variables[36]

Day 3 The Binomial Setting and Distribution[37]

Week 8 (10/23-10/27)

Day 1 Fall Break

Day 2 The Binomial Setting and Distribution[38]

Day 3 Lab: Work on Projects[39]

Week 9 (10/30-11/03)

Day 1 Mean and Standard Deviation of Random Variables[40]

Day 2 Work on Projects[41]

Day 3 Work on Projects[42]

Week 10 (11/06-11/10)

Day 1 Combining Random Variables[43]

[31] notes/probability_intro.html
[32] notes/probability_conditional.html
[33] notes/probability_rules.html
[34] notes/independent_events.html
[35] notes/decision_trees.html
[36] notes/random_variables.html
[37] notes/binomial.html
[38] notes/binomial.html
[39] labs/projectAnalysisSteps.html
[40] notes/rv_mean.html
[41] labs/projectAnalysisSteps.html
[42] labs/projectAnalysisSteps.html
[43] notes/rv_combine.html

Day 2 Mean and Standard Deviation of the Binomial[44]

Day 3 **MIDTERM** (study guide[45])

Week 11 (11/13-11/17)

Day 1 Binomial: Approximating by Normal[46]

Day 2 The Sample Mean / IID Setting[47]

Day 3 The Sample Mean / IID Setting (cont)[48]

Week 12 (11/20-11/24)

Day 1 Inference I: Confidence Intervals[49]

Day 2 THANKSGIVING

Day 3 THANKSGIVING

Week 13 (11/27-12/01)

Day 1 Inference I: Confidence Intervals (cont)[50]

Day 2 Inference II: Hypothesis Tests[51]

Day 3 Inference II: Hypothesis Tests (cont)[52]

Week 14 (12/04-12/08)

Day 1 TBA

Day 2 TBA

Day 3 Presentations

[44] notes/binomial_mean.html
[45] notes/midterm2_study_guide.html
[46] notes/binomial_mean.html
[47] notes/iid_setting.html
[48] notes/iid_setting.html
[49] notes/confidence_intervals.html
[50] notes/confidence_intervals.html
[51] notes/hypothesis_tests.html
[52] notes/hypothesis_tests.html