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]

Data Collection[3]

HW1 (due Fri)[4]

Day 2 Visualizing Variables[5]

Percentiles[6]

Quiz 1 due Sun[7]

Day 3 Lab 1[8]

Week 2 (09/11-09/15)

Day 1 Measures of Center[9]

Day 2 Measures of Spread[10]

Day 3 Linear Transformations[11]

Lab 2[12]

Week 3 (09/18-09/22)

Day 1 Density Curves[13]

The Normal Distribution[14]

[1] notes/taste.html
[2] notes/basic_terminology.html
[3] notes/data_collection.html
[4] assignments/hw1.html
[5] notes/visualizing_distributions.html
[6] notes/percentiles.html
[7] https://moodle.hanover.edu/mod/quiz/view.php?id=5177
[8] https://hanoverstatslabs.github.io/resources/labs/Lab1Instructions.html
[9] notes/measures_center.html
[10] notes/measures_spread.html
[11] notes/linear_transformations.html
[12] labs/2.html
[13] notes/density_curves.html
[14] notes/normal_distribution.html

Day 2 The Normal Distribution (cont)[15]

Day 3 Lab 3[16]

Week 4 (09/25-09/29)

Day 1 Relationships between two variables[17]
Scatterplots and Correlation[18]

Day 2 General Theory on Modeling and Data Fitting[19]

Day 3 Linear Models and Regression Lines[20]
Lab 4[21]

Week 5 (10/02-10/06)

Day 1 The question of causation[22]

Day 2 **MIDTERM** (study guide[23])

Day 3 Introduction to Probability[24]

Week 6 (10/09-10/13)

Day 1 Conditional Probability[25]

Day 2 Probability rules[26]

Day 3 Independent Events[27]

[15] notes/normal_distribution.html
[16] labs/3.html
[17] notes/relationships.html
[18] notes/scatterplot_correlation.html
[19] notes/modeling_general.html
[20] notes/linear_regression.html
[21] labs/4.html
[22] notes/correlation_causation.html
[23] notes/midterm1_study_guide.html
[24] notes/probability_intro.html
[25] notes/probability_conditional.html
[26] notes/probability_rules.html
[27] notes/independent_events.html

Week 7 (10/16-10/20)

Day 1 Tree Diagrams[28]

Day 2 Random Variables[29]

Day 3 The Binomial Setting and Distribution[30]

Week 8 (10/23-10/27)

Day 1 Fall Break

Day 2 The Binomial Setting and Distribution[31]

Day 3 Lab: Work on Projects[32]

Week 9 (10/30-11/03)

Day 1 Mean and Standard Deviation of Random Variables[33]

Day 2 Work on Projects[34]

Day 3 Work on Projects[35]

Week 10 (11/06-11/10)

Day 1 Combining Random Variables[36]

Day 2 Mean and Standard Deviation of the Binomial[37]

Day 3 **MIDTERM** (study guide[38])

[28] notes/decision_trees.html
[29] notes/random_variables.html
[30] notes/binomial.html
[31] notes/binomial.html
[32] labs/projectAnalysisSteps.html
[33] notes/rv_mean.html
[34] labs/projectAnalysisSteps.html
[35] labs/projectAnalysisSteps.html
[36] notes/rv_combine.html
[37] notes/binomial_mean.html
[38] notes/midterm2_study_guide.html

Week 11 (11/13-11/17)

Day 1 Binomial: Approximating by Normal[39]

Day 2 The Sample Mean / IID Setting[40]

Day 3 The Sample Mean / IID Setting (cont)[41]

Week 12 (11/20-11/24)

Day 1 Inference I: Confidence Intervals[42]

Day 2 THANKSGIVING

Day 3 THANKSGIVING

Week 13 (11/27-12/01)

Day 1 Inference I: Confidence Intervals (cont)[43]

Day 2 Inference II: Hypothesis Tests[44]

Day 3 Inference II: Hypothesis Tests (cont)[45]

Week 14 (12/04-12/08)

Day 1 TBA

Day 2 TBA

Day 3 Presentations

[39] notes/binomial_mean.html
[40] notes/iid_setting.html
[41] notes/iid_setting.html
[42] notes/confidence_intervals.html
[43] notes/confidence_intervals.html
[44] notes/hypothesis_tests.html
[45] notes/hypothesis_tests.html