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]

Day 3 Lab 4[22]

HW5 due Fri[23]

Week 5 (10/02-10/06)

Day 1 Relationships between two variables[24]

HW6 due Mon[25]

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

Day 3 Lab 5[27]

Week 6 (10/09-10/13)

Day 1 Scatterplots and Correlation[28]

[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

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

Linear Models and Regression Lines[30]

HW7 due Mon[31]

Day 3 Lab 6[32]

Week 7 (10/16-10/20)

Day 1 Linear Models and Regression Lines (cont)[33]

The question of causation[34]

Day 2 Introduction to Probability[35]

Conditional Probability[36]

Day 3 Probability rules[37]

Independent Events[38]

Tree Diagrams[39]

HW8 due Mon[40]

Week 8 (10/23-10/27)

Day 1 Fall Break

Day 2 Random Variables[41]

Day 3 Lab: Work on Projects[42]

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

Week 9 (10/30-11/03)

Day 1 The Binomial Setting and Distribution[43]

Day 2 Mean and Standard Deviation of Random Variables[44]

Day 3 Work on Projects[45]

Week 10 (11/06-11/10)

Day 1 Combining Random Variables[46]

Day 2 Mean and Standard Deviation of the Binomial[47]

Day 3 **MIDTERM** (study guide[48])

Week 11 (11/13-11/17)

Day 1 Binomial: Approximating by Normal[49]

Day 2 The Sample Mean / IID Setting[50]

Day 3 The Sample Mean / IID Setting (cont)[51]

Week 12 (11/20-11/24)

Day 1 Inference I: Confidence Intervals[52]

Day 2 THANKSGIVING

Day 3 THANKSGIVING

[43] notes/binomial.html
[44] notes/rv_mean.html
[45] labs/projectAnalysisSteps.html
[46] notes/rv_combine.html
[47] notes/binomial_mean.html
[48] notes/midterm2_study_guide.html
[49] notes/binomial_mean.html
[50] notes/iid_setting.html
[51] notes/iid_setting.html
[52] notes/confidence_intervals.html

Week 13 (11/27-12/01)

Day 1 Inference I: Confidence Intervals (cont)[53]

Day 2 Inference II: Hypothesis Tests[54]

Day 3 Inference II: Hypothesis Tests (cont)[55]

Week 14 (12/04-12/08)

Day 1 TBA

Day 2 TBA

Day 3 Presentations

[53] notes/confidence_intervals.html
[54] notes/hypothesis_tests.html
[55] notes/hypothesis_tests.html