Schedule

A week-by-week breakdown of the material.

Week 1 (05/01-05/05)

Day 1 Basic Terminology[1]

Visualizing Variables[2]

Percentiles[3]

Lab: Introduction to SPSS[4]

Day 2 Measures of Center[5]

Measures of Spread[6]

Linear Transformations[7]

Lab: Computing numerical summaries

Day 3 Density Curves[8]

The Normal Distribution[9]

Lab: Investigations related to normality

Day 4 Relationships between two variables[10]

Scatterplots and Correlation[11]

Lab: Plotting relationships between variables

Day 5 General Theory on Modeling and Data Fitting[12]

Linear Models and Regression Lines[13]

Lab: Regression lines, scatterplot smoothers

[1] notes/basic_terminology.html
[2] notes/visualizing_distributions.html
[3] notes/percentiles.html
[4] labs/1.html
[5] notes/measures_center.html
[6] notes/measures_spread.html
[7] notes/linear_transformations.html
[8] notes/density_curves.html
[9] notes/normal_distribution.html
[10] notes/relationships.html
[11] notes/scatterplot_correlation.html
[12] notes/modeling_general.html
[13] notes/linear_regression.html

Week 2 (05/08-05/12)

Day 1 The question of causation[14]

Introduction to Probability[15]

Day 2 **MIDTERM** (study guide[16])

Lab: Project work

Day 3 Conditional Probability[17]

Probability rules[18]

Independent Events[19]

Day 4 Tree Diagrams[20]

Random Variables[21]

Lab: Project work

Day 5 The Binomial Setting and Distribution[22]

Week 3 (05/15-05/19)

Day 1 Mean and Standard Deviation of Random Variables[23]

Combining Random Variables[24]

Mean and Standard Deviation of the Binomial[25]

Day 2 Binomial: Approximating by Normal[26]

Day 3 The Sample Mean / IID Setting[27]

Day 4 **MIDTERM 2** (study guide[28])

Day 5 At conference

Work on projects

[14] notes/correlation_causation.html
[15] notes/probability_intro.html
[16] notes/midterm1_study_guide.html
[17] notes/probability_conditional.html
[18] notes/probability_rules.html
[19] notes/independent_events.html
[20] notes/decision_trees.html
[21] notes/random_variables.html
[22] notes/binomial.html
[23] notes/rv_mean.html
[24] notes/rv_combine.html
[25] notes/binomial_mean.html
[26] notes/binomial_mean.html
[27] notes/iid_setting.html
[28] notes/midterm2_study_guide.html

Week 4 (05/22-05/26)

Day 1 Inference I: Confidence Intervals[29]
Inference II: Hypothesis Tests[30]

Day 2 TBD

Day 3 TBD

Day 4 **MIDTERM 3** (study guide[31])

Day 5 Presentations

[29] notes/confidence_intervals.html
[30] notes/hypothesis_tests.html
[31] notes/midterm3_study_guide.html