Schedule

A week-by-week breakdown of the material.

Week 1 (05/01-05/05)

Day 1 Basic Terminology[1]

Visualizing Variables[2]

Lab: Introduction to SPSS[3]

Day 2 Project Selection[4]

Percentiles[5]

Measures of Center[6]

Measures of Spread[7]

Lab: Describing Variables

Day 3 Linear Transformations[8]

Density Curves[9]

The Normal Distribution[10]

Lab: Investigations related to normality

Day 4 Relationships between two variables[11]

Scatterplots and Correlation[12]

Lab: Plotting relationships between variables

Day 5 General Theory on Modeling and Data Fitting[13]

Linear Models and Regression Lines[14]

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

Week 2 (05/08-05/12)

Day 1 The question of causation[15]

Introduction to Probability[16]

Lab: Regression lines, scatterplot smoothers

Day 2 **MIDTERM** (study guide[17])

Lab: Project work

Day 3 Conditional Probability[18]

Probability rules[19]

Independent Events[20]

Day 4 Tree Diagrams[21]

Random Variables[22]

Lab: Project work

Day 5 The Binomial Setting and Distribution[23]

Week 3 (05/15-05/19)

Day 1 Mean and Standard Deviation of Random Variables[24]

Combining Random Variables[25]

Mean and Standard Deviation of the Binomial[26]

Day 2 Binomial: Approximating by Normal[27]

Day 3 The Sample Mean / IID Setting[28]

Day 4 **MIDTERM 2** (study guide[29])

Day 5 At conference

Work on projects

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

Week 4 (05/22-05/26)

Day 1 Inference I: Confidence Intervals[30]
Inference II: Hypothesis Tests[31]

Day 2 TBD

Day 3 TBD

Day 4 **MIDTERM 3** (study guide[32])

Day 5 Presentations

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