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[8]

Day 3 Linear Transformations[9]

Density Curves[10]

Lab: Project Prep[11]

Day 4 The Normal Distribution[12]

Relationships between two variables[13]

Lab: Investigating relationships between variables[14]

Day 5 Scatterplots and Correlation[15]

[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] labs/2.html
[9] notes/linear_transformations.html
[10] notes/density_curves.html
[11] labs/project_prep.html
[12] notes/normal_distribution.html
[13] notes/relationships.html
[14] labs/3.html
[15] notes/scatterplot_correlation.html

Week 2 (05/08-05/12)

Day 1 General Theory on Modeling and Data Fitting[16]

Linear Models and Regression Lines[17]

Lab: Regression lines, scatterplot smoothers[18]

Day 2 **MIDTERM** (study guide[19])

Day 3 Data Collection[20]

The question of causation[21]

Introduction to Probability[22]

Lab: Practice 1[23]

Day 4 Conditional Probability[24]

Probability rules[25]

Independent Events[26]

Lab: Project work

Day 5 Tree Diagrams[27]

Random Variables[28]

The Binomial Setting and Distribution[29]

Week 3 (05/15-05/19)

Day 1 Mean and Standard Deviation of Random Variables[30]

Combining Random Variables[31]

Day 2 Mean and Standard Deviation of the Binomial[32]

Binomial: Approximating by Normal[33]

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[17] notes/linear_regression.html
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[19] notes/midterm1_study_guide.html
[20] notes/data_collection.html
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[33] notes/binomial_mean.html

Day 3 The Sample Mean / IID Setting[34]

Day 4 **MIDTERM 2** (study guide[35])

Day 5 At conference
Work on projects

Week 4 (05/22-05/26)

Day 1 Inference I: Confidence Intervals[36]
Inference II: Hypothesis Tests[37]

Day 2 TBD

Day 3 TBD

Day 4 **MIDTERM 3** (study guide[38])

Day 5 Presentations

[34] notes/iid_setting.html
[35] notes/midterm2_study_guide.html
[36] notes/confidence_intervals.html
[37] notes/hypothesis_tests.html
[38] notes/midterm3_study_guide.html