

Schedule

A week-by-week breakdown of the material.

Week 1 (05/01-05/05)

Day 1 Basic Terminology¹

Visualizing Variables²

Percentiles³

Lab: Introduction to SPSS

Day 2 Measures of Center⁴

Measures of Spread⁵

Linear Transformations⁶

Lab: Computing numerical summaries

Day 3 Density Curves⁷

The Normal Distribution⁸

Lab: Investigations related to normality

Day 4 Relationships between two variables⁹

Scatterplots and Correlation¹⁰

Lab: Plotting relationships between variables

Day 5 General Theory on Modeling and Data Fitting¹¹

Linear Models and Regression Lines¹²

Lab: Regression lines, scatterplot smoothers

¹notes/basic_terminology.html

²notes/visualizing_distributions.html

³<notes/percentiles.html>

⁴notes/measures_center.html

⁵notes/measures_spread.html

⁶notes/linear_transformations.html

⁷notes/density_curves.html

⁸notes/normal_distribution.html

⁹<notes/relationships.html>

¹⁰notes/scatterplot_correlation.html

¹¹notes/modeling_general.html

¹²notes/linear_regression.html

Week 2 (05/08-05/12)

Day 1 The question of causation¹³

Introduction to Probability¹⁴

Day 2 MIDTERM (study guide¹⁵)

Lab: Project work

Day 3 Conditional Probability¹⁶

Probability rules¹⁷

Independent Events¹⁸

Day 4 Tree Diagrams¹⁹

Random Variables²⁰

Lab: Project work

Day 5 The Binomial Setting and Distribution²¹

Week 3 (05/15-05/19)

Day 1 Mean and Standard Deviation of Random Variables²²

Combining Random Variables²³

Mean and Standard Deviation of the Binomial²⁴

Day 2 Binomial: Approximating by Normal²⁵

Day 3 The Sample Mean / IID Setting²⁶

Day 4 MIDTERM 2 (study guide²⁷)

Day 5 At conference

Work on projects

¹³[notes/correlation_causation.html](#)

¹⁴[notes/probability_intro.html](#)

¹⁵[notes/midterm1_study_guide.html](#)

¹⁶[notes/probability_conditional.html](#)

¹⁷[notes/probability_rules.html](#)

¹⁸[notes/independent_events.html](#)

¹⁹[notes/decision_trees.html](#)

²⁰[notes/random_variables.html](#)

²¹[notes/binomial.html](#)

²²[notes/rv_mean.html](#)

²³[notes/rv_combine.html](#)

²⁴[notes/binomial_mean.html](#)

²⁵[notes/binomial_mean.html](#)

²⁶[notes/iid_setting.html](#)

²⁷[notes/midterm2_study_guide.html](#)

Week 4 (05/22-05/26)

Day 1 Inference I: Confidence Intervals²⁸

Inference II: Hypothesis Tests²⁹

Day 2 TBD

Day 3 TBD

Day 4 **MIDTERM 3** (study guide³⁰)

Day 5 Presentations

²⁸[notes/confidence_intervals.html](#)

²⁹[notes/hypothesis_tests.html](#)

³⁰[notes/midterm3_study_guide.html](#)