

Wk 9 Error and Power of Decision Rules (Mar 19–23)

Mon: Type I and Type II Errors, Power (11.1)

Wed: Power and Sample Size (11.2–11.3)

Fri: Most Powerful Tests (11.5)

Homework 7: Chapter 11: 3, 4, 10, 12, 18, 20, 22

Wk 10 Finding & Evaluating Decision Rules (Mar 26–30)

Mon: Most Powerful Tests, continued (11.6–11.7)

Wed: Likelihood Ratio Test (11.8)

Fri: Bayesian Decisions (11.9)

Recommended: Chapter 11: 25, 26, 29 change to $(1 - \theta)/3$, 32

Wk 11 Exam Week (Apr 2–6)

Mon: Review, Take home exam passed out.

Wed: No class. Work on the exam!

Extra office hour for any questions.

Fri: Exam due at start of class (or in mailbox by 3:20).

Two kinds of two populations (12.1, 12.6)

Homework 8: Handout: Paired or Independent? (see website)

3 Application

The final part of the course applies these concepts to situations with two or more populations (discrete predictors, continuous response), categorical data (discrete predictors and response), and regression (continuous predictors and response).

Wk 12 Two populations (Apr 9–13)

Mon: Two population tests (12.2–12.4)

Wed: Nonparametric two population tests (12.5)

Fri: F and Variance tests (12.7–12.8)

Homework 9: Chapter 12: 2, 5, 7, 9, 13, 28, R3

Wk 13 Goodness of Fit (Apr 16–20)

Mon: Categorical tests, Chi-squared test (13.1–13.2)

Wed: as a Likelihood Ratio Test (13.6)

Fri: Testing Independence and Homogeneity (13.5,13.7)

Homework 10: Chapter 13: 1, 4, 6, 20, 23, 26, 28, R5

Wk 14 ANOVA (Apr 23–27)

Mon: ANOVA in practice (14.1)

Wed: ANOVA in theory (14.2)

Fri: Multiple comparisons (14.3)

Homework 11: Chapter 14: 1, 2, 5, 6, 12, 15, R7

WK 15 Regression (Apr 30–May 4)

Mon: Regression (15.1–15.2)

Wed: Inference for Regression (15.3–15.4)

Fri: Regression Effect (15.8)

Recommended: Chapter 15: 1, 3, 5, 15, 19

FINALS Final Exam (May 9)

Wed: Final Exam, 1:30–3:30 pm