

Statistics Lab Manual Spring 2018

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OFFICE: WH 317; Mariah's hours: Mondays, 230-330; Wednesdays, 1200-100

Please note that all homework and lab assignments are due to your TA at the start of the following laboratory session.

Late Assignment Policy: All homework and lab assignments will be due at the beginning of lab on the week after the assignments are given out. None of these assignments will be accepted late. Any assignments not handed in on time will be assigned grades of 0.

Accommodation Policy: There may be conditions under which your TA modifies the schedule below to optimally accommodate teaching of the material.

Note: All policies from the course syllabus (e.g., the policy on plagiarism) applies to the work from the lab component of this course.

WEEK (Mondays are demarcated)	Homework (note that the below corresponds to the week in which the HW is ASSIGNED - assignments are due at the subsequent lab meeting - at the VERY BEGINNING of that subsequent lab meeting)
1. 8/27	Go over the lab manual and policies; Basic Issues in Statistics (Chap. 1); HW: A (1,4); B (2,3)
2 - 9/3	Mean, Median, Mode, Standard Deviation (Chap. 2); HW: A(1, 2, 4, 5); B(3, 6) Computer Lab #3 (Descriptive Statistics) (use "made-up data" from course website)
3 - 9/10	Z scores (Chap. 3); HW: A(1, 2, 3, 4); B(5, 6, 7)
3 - 9/17	Correlation (Ch. 4); HW: A(1, 2, 4); B(2, 4)
4 - 9/24	Computer Lab #4 (Correlation)
5 - 10/1	Introducing regression
6 - 10/8	Regression (ch. 5) - assigned; HW: A(1, 3); B(4)
7 - 10/15	Hypothesis testing ingredients - Chapter 6; HW: A(1, 3, 4, 6, 8); B(4, 5, 6)

8 - 10/22	Hypothesis testing – $N = 1$ (Chap. 7) ASSIGNED; HW: A(1, 2); B(1, 2, 3)
9 - 10/29	Hypothesis testing – $N > 1$ (Chap. 8); ASSIGNED; HW: A(1, 2); B(2, 3)
10 - 11/5	Power and Effect Size (Chap. 9); HW: A(1, 3); B(2, 3)
11 - 11/12	One Sample and Repeated Measures t-test (Chap. 10); ASSIGNED; HW: A(1, 3); B(1, 2, 3) Computer Lab #6 (t-test lab)
12 - 11/19	Chapter 11 Between-groups t-tests; HW: A(A, C); B(A, B)
13 - 11/26	REVIEW
14 - 12/3	ANOVA Computer Lab (#7); Chapter 12: HW: A(1, 3); B(1, 3)

IMPORTANT:

1. Note that some weeks, a particular lab section may meet on a day that would make it more useful for students to review for an exam than to go over new material. We will all work together to accommodate such situations in a way that optimizes your ability to master the material in an overall sense.
2. If your lab does not meet on a particular week due to the academic calendar, you still need to complete the assigned homework assignments and hand them in the subsequent week. In such instances, you may attend a different lab section, see the TA or Professor for help, or simply base your work on your reading and on notes from class.