

Statistics Lab Manual SPRING 2024

Glenn Geher, course Instructor;

TAs and Supplemental Instructor contact info:

TA: Kyle Powell <powellk4@newpaltz.edu>

TA: Emma Reilly <reillye5@newpaltz.edu> ,

Supplemental Instructor: Julia Lombard

Note that your designated TA will hold primary responsibility for the lab element of the course.

OFFICE HOURS for Glenn: see glenngeher.com

OFFICE HOURS for Kyle, Emma, and Julia:

Julia: **Tuesday** 2:00-2:50pm, **Thursday** 12:30-1:20pm

Center for Student Success, Old Main, Room B106

Kyle: Monday: 11am-2pm

Wooster Hall 317

Emma: Wednesday: 12pm-2pm

Wooster Hall 317

Please note that all homework and lab assignments are due to your TA at the start of the following week's laboratory session *per the process determined and stated by your TA*. **Thus, for instance, the HW that is assigned 2/5 is due at the start of your lab on 2/12** (note: if prior written agreements are made to submit your work, for some good reason, **BEFORE** said lab session meets, your TA has the prerogative to choose to accept your work via some agreed-upon system)

Late Assignment Policy: All homework and lab assignments will be due at the start time of your lab each week. None of these assignments will be accepted late. Any assignments not handed in on time will be assigned grades of 0. (barring pandemic-related emergencies, which will be addressed on a case-by-case basis)

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) apply to the work from the lab component of this course.

Date: Week of...	Homework (note that the below corresponds to the week in which the HW is ASSIGNED—assignments are due at the subsequent lab meeting)
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1 - 1/23	Welcome to lab!
2 - 1/29	Basic Issues in Statistics (Chap. 1); HW: A(1 ALL ELEMENTS OF QUESTION,4); B(2,3) (DUE at start of lab following week)
3 - 2/5	Mean, Median, Mode, Standard Deviation (Chap. 2); HW: A(1, 2, 4, 5); B(3, 6) Z scores (Chap. 3); HW: A(1, 2, 3, 4); B(5, 6, 7) (DUE at start of lab following week)
4 - 2/12	Correlation (Ch. 4); HW: A(1, 2, 4); B(2, 4) (DUE at start of lab following week)
5 - 2/19* (no classes on Monday, 2/19 due to President's Day—see note below)*	Computer Lab #3 (Descriptive Statistics) (DUE at start of lab following week and/or as determined by your TA)
6 - 2/26	Computer Lab #4 (Correlation) (DUE at start of lab following week)
7 - 3/4	Regression (ch. 5) - assigned; HW: A(1, 3); B(4) (DUE at start of lab following week)
8 - 3/11	Hypothesis testing ingredients - Chapter 6; HW: A(1, 3, 4, 6, 8); B(4, 5, 6) (DUE at start of lab following week)
9 - 3/18	Hypothesis testing – N = 1 (Chap. 7) ASSIGNED; HW: A(1, 2); B(1, 2, 3) (DUE at start of lab following week)
3/25	No lab—SPRING BREAK!
10 - 4/1	Hypothesis testing – N > 1 (Chap. 8); ASSIGNED; HW: A(1, 2); B(2, 3) (DUE at start of lab following week)
11 - 4/8	Power and Effect Size (Chap. 9); HW: A(1, 3); B(2, 3) (DUE at start of lab following week)
12 - 4/15	One Sample and Repeated Measures t-test (Chap. 10); ASSIGNED; HW: A(1, 3); B(1, 2, 3) Computer Lab #6 (t-test lab) (DUE at start of lab following week)

13 - 4/22	Chapter 11 HW: A(A, C); B(A, B) (DUE at start of lab following week and/or per TA's stated process)
14 - 4/29	HW: A(1, 3); B(1, 3) (DUE via time and date determined by TA; will be due necessarily before the day of the final exam)
15 - 5/6	ANOVA Computer Lab (#7) (DUE via time and date determined by TA; will be due necessarily before the day of the final exam)

IMPORTANT NOTES:

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.

3. Any aspect of this lab manual may change due to the COVID pandemic at any point; University policy will be followed and reasonable accommodations will be made when necessary.