Stat 13, Intro. to Statistical Methods for the Life and Health Sciences.

1. Review list.
2. One proportion. Percent of sophomores.
3. Sampling issues.
4. One mean. Year number.
5. Two proportions. Left of class vs. right of class and percent of sophomores.
6. Two means. Left, right, and mean year.
7. Regression and correlation. Seat number and year number.
8. Causation explanations and extrapolation.
9. 3 means with center. CIs for comparing two means.

The final Fri Dec 9, 8am-11, right here, will be on ch1-7, 9, and 10.
Bring a PENCIL and CALCULATOR and any books or notes you want. No computers.
http://www.stat.ucla.edu/~frederic/13/F16 .

1. Review list.

1. Meaning of SD.
2. Parameters and statistics.
3. Z statistic for proportions.
4. Simulation and meaning of pvalues.
5. SE for proportions.
6. What influences pvalues.
7. CLT and validity conditions for tests.
8. 1-sided and 2-sided tests.
9. Reject the null vs. accept the alternative.
10. Sampling and bias.
11. Significance level.
12. Type I, type II errors, and power.
13. CIs for a proportion.
14. CIs for a mean.
15. Margin of error.
16. Practical significance.
17. Confounding.
18. Observational studies and experiments.
19. Random sampling and random assignment.
20. Two proportion CIs and testing.
21. IQR and 5 number summaries.
22. CIs for 2 means and testing.
23. Paired data.
24. Placebo effect, adherer bias, and nonresponse bias.
25. Prediction and causation.
26. Multiple testing and publication bias
27. Polling errors.
28. Correlation.
29. Regression.
30. Calculate & interpret a & b.
31. Goodness of fit for regression.
32. Common regression problems (causation, extrapolation, curvature, heteroskedasticity).
33. Comparing multiple means with MAD.
34. ANOVA & F-test.