

Week Topic

1. Scientific vs. non-scientific enquiry. Paradigms, theory, explanation, research. Conceptualizing: concepts & variables. Ch 1, 2, and pp 171-172.
2. Research questions. Operationalizing research. Measurement. Four kinds of numbers. Categorical vs. continuous. Levels of scaling. Ch 3. Validity and reliability. Ch 4, and pp 175-180.
3. Sampling: non-probability and probability sampling. Ch 5. Univariate descriptive statistics. Central tendency: mode, median, mean. Dispersion: range, IQR. Variance, standard deviation. Z-score. Ch 6, and pp 173-175.
4. Distributions, the normal distribution, areas under the normal curve. Ch 7. The normal curve and sampling distributions, standard errors. Ch 8.
5. Inferential statistics, standard error of the mean Ch 9. Confidence intervals, Z-test of a single mean. Ch 10.
6. Tuesday June 13: Mid-term exam #1
Bivariate descriptive statistics: cross-tabulation. Ch 11.
7. Covariance, correlation. Ch 13. Regression. Ch 14.
8. Inferential statistics: statistical significance. Testing the null hypothesis. Ch 15. Chi-squared. Ch 16.
9. Tests for correlations. Significance of Pearson's r, difference between two r's. Ch 18, pp 145-148. Review for mid-term exam.
10. Tuesday July 11: Mid-term exam #2
11. Z-test for difference between means Ch 17
12. t-test for difference between means, ANOVA. Ch 19. Experiments, Ch 20.
13. Survey research, Ch 21.

Grading:

1. Mid-Term exam #1:	week 6	12%
2. Mid-Term exam #2:	week 10	21%
3. Final exam:	final exam period	35%
4. Assignments		22%
5. Tutorial attendance and participation		10%

Probable grading system	
50% - 59.999%	D
60% - 63.999%	C-
64% - 67.999%	C
68% - 71.999%	C+
72% - 75.999%	B-
76% - 79.999%	B
80% - 83.999%	B+
84% - 87.999%	A-
88% - 91.999%	A
92% or higher	A+