M358K: Topics for the Final Exam

☐ Bar plots and pie charts.

☐ Histograms: modality, skewness.

☐ Measures of center: mean, median.

☐ Measures of spread: IQR range, variance, standard deviation.

☐ Box plots.

☐ Stacked dot plots.

☐ Sampling.

☐ Experiments.

☐ The sample mean: the normal case

☐ Point estimates and sampling variability.

☐ Confidence intervals: the general principles

☐ Confidence intervals: the normal case with an unknown mean and known standard deviation

☐ Hypothesis testing: the general principles

☐ Hypothesis testing: the normal case with an unknown mean and known standard deviation

☐ The power of the test.

☐ A single proportion: Confidence intervals.

☐ A single proportion: Hypothesis testing.

☐ Two proportions: Confidence intervals.

☐ Two proportions: Hypothesis testing.

☐ The χ^2-distribution.

☐ The goodness-of-fit test.

☐ The χ^2-test of independence.

☐ t-procedures: Single mean: Confidence intervals.

☐ t-procedures: Single mean: Hypothesis testing.

☐ t-procedures: Two means: Confidence intervals.

☐ t-procedures: Two means: Hypothesis testing.

☐ Correlation.

☐ Simple linear regression.