

# PSY200 Learning Objectives

## TEACH STATISTICAL THINKING

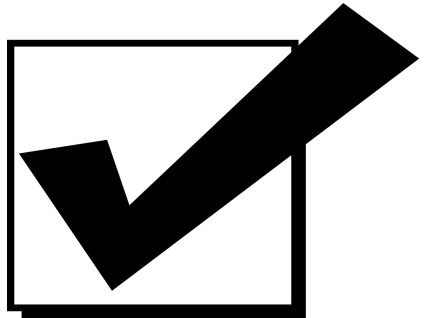
- Students will be able to state the null and alternative hypotheses for statistical tests.
- Students will understand the appropriate use of statistical tests.
- Students will know how to accurately write the results of a statistical test in APA format.

## FOCUS ON CONCEPTUAL UNDERSTANDING

- Students will know how to interpret the results of statistical tests.
- Students will be able to translate the results of said statistical test into real world meaning (i.e., how would you explain the results to your mom?).

## USE TECHNOLOGY TO EXPLORE CONCEPTS & ANALYZE DATA

- Students will know how to test that the dataset meets the assumptions needed to run statistical tests.
- Students will know how to run statistical tests in chosen statistical program.



## COVER NEEDED STATISTICAL TESTS AND CONCEPTS

### Required

- Descriptive statistics: mean, standard deviations
- NHST add-ons: effect size, confidence intervals
- Z-scores and tests
- T-tests: single, independent and dependent
- ANOVA: one-way between subjects and repeated measures
- Correlation
- Regression

### Optional

- Factorial ANOVA
- Chi-square

## NEED RESOURCES?

Visit <https://osf.io/t56kg/>