

Instructor Information

Design sampling and study procedures to collect relevant data addressing a research question.

- Distinguish among common sampling and study designs.
- Identify issues associated with sampling and study design (e.g. bias, validity, confounding, control, reproducibility, power/effect size)
- Identify relevant inference procedures based on research question, and, type and number of variables.

- Select summaries based on research question and variables.
- Interpret common graphical and numerical summaries to identify and/or describe patterns, trends, and interesting features in data.

Course

Nov 14-20	Understanding null hypothesis testing Large sample test for the proportion Lab 7: large sample procedures for proportions in R			
Nov 21-27	t test for the mean t confidence interval and test for difference in means Lab 8: two sample procedures in R		Core 4: Exploring errors in hypothesis testing R U3-1 0 0 1 490.39 TJET@169(R U3	

Course Materials

2. Your '**Grade Increments**' which add additional percentage points onto your Base Grade using elements of a more traditional grading approach, based on your success on:
- the *Test* (10%)
 - the *Final Exam* (20%)
 - the *Improvement Bonus* (3%)
 - the *Data Skills Project* (7%)
 - the *Activities* (8%)

Determining your Base Grade

Your Base Grade is based on achievement on the set of three (3) *Assignments* in the course, and the *Test* and *Final Exam*. Each *Assignment* evaluates your mastery on a subset of the course-level learning outcomes (see page 4); your mastery of each course-level learning outcome is graded against a 4-level rubric using **M** = Mastery (highest level), **P** = Proficient, **A** = Approaching proficiency, **N** = Not met (lowest level). The number of **M**, **P**, **A**, and **N** levels you achieve (and hence, the number of learning outcomes for which you demonstrate some level of proficiency) is a major determinant of your Base Grade. This is combined with a minimum grade requirement for the *Test* and *Final Exam* incorporated into each Base Grade. Your final Base Grade will be based on the highest graded 'bundle' of accomplishments that you fulfill in its entirety.

To earn: | **Achieve ALL of the following specifications:**

