**Research Question:**

Each year students rate their instructors on several questions about the course, the grades, and the actual instructor. We want to see if there are significant differences in these factors.

**Between Subjects IV(s):**

* + Sex: the gender of the instructor
  + UG: the type of course taught
    - Undergraduate, Both (split level), Graduate

**Repeated Measures IV(s):**

* Question type:
  + Instructor or grading
* Question intent:
  + Clear information, fairness, appropriateness
* Instructor Questions: 2, 5, 7
  + 2. The instructor presented the course in a clear and organized manner.
  + 5. The instructor treated all students equally.
  + 7. The instructor made information that was appropriate for the course.
* Grading Questions: 3, 4, 9
  + 3. The examinations were representative of the material covered in the assigned readings and class lectures.
  + 4. The instructor used fair and appropriate methods in the determination of grades.
  + 9. The assignments and required activities in the class were appropriate.

**Between Subjects DV(s):**

* Question 1: The overall quality of this course is in the top 20% that I have taken.

**Research Questions:**

* Between subjects: Is there an interaction between sex and course level on the overall perceived quality of the course?
* Repeated measures: Is there an interaction between instructor and grading questions?
* Mixed: Is there an interaction between sex and instructor questions?

Between Only

*Do not forget that data screening still applies – just not done on these quizzes.*

Power: How many people would we need to get a significant effect (using interaction)?

ANOVA boxes (assumption from ANOVA, correct ANOVA box, means):

List the F-values for each effect:

**Main Effect sex:**

**Main Effect undergraduate:**

**Interaction effect:**

Post hocs (include boxes):

**Make a graph of the interaction in APA style (remember all the rules from before – evals go from 1 to 5).**

Repeated Measures Only

Power: How many people would we need to get a significant effect (using interaction)?

ANOVA boxes (assumption from ANOVA, correct ANOVA box, means):

List the F-values for each effect:

**Main Effect question type:**

**Main Effect question content:**

**Interaction effect:**

Post hocs (include boxes):

**Include a small write up of the post hoc analysis (be sure to include at least one sentence about each post hoc, the means, p-values and d-values).**

Mixed Designs

Power: How many people would we need to get a significant effect (using interaction)?

ANOVA boxes (assumption from ANOVA, correct ANOVA box, means):

List the F-values for each effect:

**Main Effect gender:**

**Main Effect instructor questions:**

**Interaction effect:**

Post hocs (include boxes):

**Include a table of post hoc values (t, p, d). Make sure this table is in APA style.**