**Psy 633 Lab 3
Factorial ANOVA**

Various characteristics of people’s lives may play a role in the scores people receive on Cognitive Assessments. For example, exposure to similar tests in the past may help people to do better on such assessments. Use the Mock WJ Data file to conduct a Factorial ANOVA and determine if there are any effects on people’s Full IQ scores (Full\_IQ) relative to Socioeconomic Status (SES) and Region of the country in which they live (Region). This is a between-subject design and the dependent variable is Full Scale IQ on the WJ-IV Cognitive Assessment. Use alpha = .05. Please type responses to all questions and submit to the drop box by the due date.

Qualitative labels for interpreting *r2 and η*2 are displayed below. **Magnitude of r2 Evaluation**
.09 and below Small effect
between .09 & .25 Medium effect
over .25 Large effect

1) Was there a main effect for Socioeconomic Status? Explain your answer.

2) How large was the effect of SES on IQ Scores? Explain your answer.

3) Was there a main effect for Region of the country? Explain your answer.

4) How large was the effect of Region on IQ Scores? Explain your answer.

5) Was there an interaction between SES and Region? Explain your answer.

6) How large was the effect of the interaction on IQ Scores? Explain your answer.

7) Was a simple main effects analysis necessary? Why or why not?

8) Type an APA-style Results for the foregoing analysis. *See gender x hormones results section* (posted on course website) for an example. Two differences from the example: 1) You will paste the line graph from SPSS into your Word document and refer the reader to the figure (no need to create a separate bar chart) and 2) You will expand on the significant main effects, explaining which of the follow-up comparisons were significant for each variable.