

Political Science 30, Political Inquiry
Homework Project 3

Due **Wednesday, May 21st** at the beginning of lecture.

Please answer each question in turn, numbering them as below.

1. Rewrite your hypothesis from the previous homework.
2. Now write down the null hypothesis.
3. In SPSS run a bivariate regression using the two variables from your hypothesis.
4. Report a measure of strength of statistical association and report its value.
5. Now write the equation for the line in the form of $y = a + bx$
6. Interpret a (intercept)
7. Interpret b (slope)
8. Find the confidence interval for b *by hand* and verify that it is the same as the output given by SPSS.
9. Interpret the confidence interval.
10. Can you reject the null hypothesis? Why or why not?
11. Take the first 5 values of your independent variable and predict Y.

