

**Economics 381, Fall 2016**

**Problem Set 5 – Data Visualization in Stata**

**Due Date: November 10**

**Instructions:** Complete the assigned problems in Stata using the in-built `nlsw88` dataset. Save your graphs in PNG format, insert them into a Word file, and print the Word file. You must also print out the commands needed to produce the graphs, and **staple** the Word doc and do-file to this sheet.

**Name (printed):**

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- Q1. This first graph to produce is a pie chart breaking down college graduation (yes/no) by marital status (married/single). Thus the pie chart should have four ‘slices’. Title this graph “Graph 1”, and add a note to the graph indicating that the data source is the NSLW88 survey.
- Q2. The second graph to produce is a histogram of level of schooling (i.e. grade) completed. Record the vertical axis in percent terms, and also use the `discrete` option to let Stata know this is not a continuous variable. Title this graph “Graph 2”, and include an appropriate subtitle of your choosing.
- Q3. The third graph to produce is a combined scatterplot and line of best fit graph, both of which should demonstrate the relationship between wages and highest level of school grade completed. Ensure that the line of best fit includes a 95% confidence band around it. Title this graph “Graph 3”.
- Q4. The fourth and final graph is a horizontal box chart (`hbox`) of wages. Produce this chart focusing exclusively on married people, “over” all industries. Exclude the outlier observations from the chart, and add an appropriate title of your choosing to the graph.