Quantitative Methods (Geo 441) Name: _____
SPSS Exercise 1: Basic Graphs
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Please download the Excel file **S:\GEO\Marr\Quantitative Methods\SPSS Exercises\Titanic Passengers and Crew.xls.** Import the Excel spreadsheet into SPSS. Please embed each graphic and table into this document at the appropriate location. To conserve paper, they must be resized smaller, but still legible.

You will have to add a title to each graph, plot, or chart. By default SPSS uses the variable names as the axis labels. Please change these so that they are easier to understand. Since you will be printing these on a black and white printer, change the fill colors to gray tones as needed.

1. Create a simple box plot of Fare_Price by passenger class (i.e. 1st class, 2nd class…). Since the case numbers obscure the actual outlier data points, remove them.

2. Create a simple error bar plot for groups of cases that displays 95% confidence intervals of the mean for the variable Fare_Price for each passenger class (1st, 2nd, 3rd, excluding cross-channel passengers).

3. Create a population pyramid for crew members only that displays each crew department (engine, deck, la carte, etc…) and their status (died or survived).

4. Create a pie chart displaying the total amount of fares collected by each passenger class (1st, 2nd, 3rd, including cross-channel passengers).

5. Create a population pyramid displaying the age categories of who survived and who died per each passenger class (excluding cross channel passengers). Hint: there should be three panels (one for each passenger class), with *Age-Yrs* as the y-axis and *Status* as the x-axis.

6. Create a table showing passenger class (excluding cross-channel) by survival status. The table should show the observed and expected number of survivors and victims in each class. What does these results suggest? Remember it is rows by columns

7. Create a table showing crew department (i.e. engine, victualing) by survival status. The table should show the observed and expected number of survivors and victims in each department. What department had the worst survival rate? Which had the best survival rate?

8. Create a table of class/department (both passengers and crew) by boat. This table will have to be edited to fit on the page. What does this table tell you?