**MAT 7500 – Spring 2017**

**Practice Problems for SAS Lecture 3**

**Problem 1**: See problem #3 on SAS Homework #2

* 1. Using proc print to print all four created files into a Word file
  2. Print (export) the first dataset into Excel using ODS

**Problem 2**: SAS Graphics.

1. Using the student data from SAS Lecture 2 Practice Problems, create a bar chart and pie chart for each of student gender, (corrected) race, handedness, and eye color
2. Read in the HHStudy.xlsx data (that we used in R). Create appropriate graphs to summarize the data.

**Problem 3**: Using the HHStudy data,

* 1. Create three age categories called “40s” (people from 40 to 49), “50s”, and “60s” and assign people to them appropriately
  2. Use PROC FREQ with a /list option to verify that the data were created correctly.
  3. Using PROC TABULATE,
     1. Create a contingency table of smoke by phys act
     2. Create a contingency table of smoke by phys act, separately by age category
     3. Create a contingency table of smoke by phys act that shows mean and st.dev. (std) of pond idx (a measure of obesity like BMI)
  4. Create a histogram of the z-scores of cholesterol level for each person standardizing base on the mean and sd within educ level.