**STAT 101**

**SS#3**

**2.13.20 :: Due 2.18.20**

**Course Value: 10 points**

**SPSS: Obtaining statistical output & providing analysis**

**Finding the data file:**

Go to my web page > Stat 101: Intro > Data Files > open the file ***Supertasters\_sp2013.sav***.

**How to obtain Selected Tables and Charts:**

**Frequency Table:** Analyze > Descriptive Statistics > Frequency > move variable to right cell > Ok.

**Histogram:** Graphs > Legacy Dialog > Histogram> move variable to top right “Variable” cell and select the “Display normal curve” option directly below the Variable cell. > OK.

**Frequency Polygon:** Graphs > Legacy Dialog > Area> Define (leave as is) > move variable to **Category Axis** cell > OK [C:\Program Files\Microsoft Office\MEDIA\OFFICE14\Bullets\BD21298_.gifNOTE: SPSS does not connect to the base as done by hand in class.]

**Ogive:** Graphs > Legacy Dialog > Area> Define (leave as is) > move variable to **Category Axis** cell > AT THE TOP RIGHT CHANGE “LINE REPRESENTS” TO “**Cum %**” > OK. [C:\Program Files\Microsoft Office\MEDIA\OFFICE14\Bullets\BD21298_.gifNOTE: The line will not connect to the base.]

**Stem-&-Leaf:** Analyze > Descriptive Statistics > Explore > move variable to “Dependent List” > OK.

[C:\Program Files\Microsoft Office\MEDIA\OFFICE14\Bullets\BD21298_.gifNOTE: You will get a number of tables and charts along with the Stem-&-Leaf.; see printing note above]

**Moving Tables and Charts into a Word Document**: See SS#1 for a review of this process.

**General Instructions:**

1. All problems use the ***Supertasters\_sp2013.sav***. data file.
2. Open a Word document:
   1. **On the first line place your name**
   2. **On the second line place: SS#1and the date**
3. Obtain the required SPSS frequency table and charts. All SPSS data files are located on the STAT 101 Data Files link. If you get stuck trying to obtain a table/chart, recall that there is a SPSS manual online.
4. Place the table & charts obtained from SPSS into the document.
5. **Grading:** One point for each table/chart, one point for the paragraph discussion of the table contents. Deductions at -.5 each.
6. C:\Program Files\Microsoft Office\MEDIA\OFFICE14\Bullets\BD21298_.gif **NOTE:** **You are limited to one sheet of paper (both sides), so reduce the table and chart sizes.**

**The Task:** Open the ***Supertasters\_sp2013.sav*** SPSS data file.

1. [2] Make a frequency table of the variable **Taste\_Buds**, **which represents the reported number of taste buds by participants**. Place your name in a table footnote. Place this table into the Word document. [C:\Program Files\Microsoft Office\MEDIA\OFFICE14\Bullets\BD21298_.gifNOTE: This will be a large table, so shrink I way down.]
2. [2] Type a paragraph discussing the table. Include an introductory statement, a minimum of two descriptive statements and a summary statement (refer to blue sheet about writing descriptive statements). When discussing the contents of a table/chart/graph remember to use the statistics rather than just words such as “more” and “majority.”  **[C:\Program Files\Microsoft Office\MEDIA\OFFICE14\Bullets\BD21298_.gifNOTE**: **In order to discuss the tabled data, assume persons with <15 taste buds = Non-Tasters, 15-30 taste buds = Normal Tasters, and >30 taste buds = Supertaster.]**
3. [2] Using SPSS, make a histogram of the variable **Age**. Include the normal curve option and place the chart into the document.
4. [2] Using SPSS, make an Ogive of the variable **Taste\_Buds**. Place it into the Word document.
5. [2] Using SPSS, make a stem-&-Leaf of the variable **Age**. Place it in the Word document. [C:\Program Files\Microsoft Office\MEDIA\OFFICE14\Bullets\BD21298_.gif**NOTE**: This plot is in a text format, so it could take a couple of attempts to copy it.]