## Stat 110 Lab #2

## Introduction to SPSS

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Today we are going to explore data collected from 173 college students at UC Davis in two different statistics classes. One class was for students not in the liberal arts (n=148), while the other class was for students in the liberal arts (n=25). The data were collected in the Spring quarter of 2000. (Source: Utts and Heckard). We will be using graphical and numerical summaries in the software package PASW Statistics (formerly and commonly called SPSS). The instructions should work for either Windows or Mac with minor modification. Let me know if you see anythig confusing or get stuck at any point.

Name	Description
Sex	Male or Female
TV	hours spent watching tv each week
computer	hours spent on a computer each week
Sleep	hours of sleep previous night
Seat	typical classroom seat (front, middle, back)
alcohol	number of alcoholic beverages consumed each week
Height	self-reported height (inches)
momheight	mother's height (inches)
dadheight	father's height (inches)
excercise	hours spent exercising each week
GPA	student GPA
class	liberal arts or not liberal arts

## Reading in the Data

First some preliminaries. we will read in the data, look it over, and make sure it is usable by SPSS.

- 1. Download the data from Moodle. Pay careful attention to where the file is saved!
- 2. Open SPSS Statistics. If you cancel the initial dialog box, you will see the Data Editor. This should look like an (empty) excel spreadsheet.
- 3. Bring in our data using File > Open > Data > UCDavis.xlsx (after changing File Type to .xlsx). Click OK to the dialog box so that SPSS uses its default choices for importing Excel data. Note that the spreadsheet has a Data View (where you can see the raw data), and a Variable View (where you can see properties of each variable in the data set).
- 4. In Variable View, we must make sure to define the Measure of each variable. Scale for a measure-ment/quantitative variable, Nominal for a categorical variable, and Ordinal if the categories have a natural order to them. For this data, the measures of all the variables are already correct.
- 5. After claning and defining your data, it can be saved as an SPSS data set for future use. Go to File > Save As and type in a filename (which will be given a .sav extension).

Now it's time to examine this data! In statistics, we always begin by visualizing our data using appropriate and insightful graphs. The best graph for a situation depends on the number of variables being examined (1 or 2 for now) and the type of variables (measurement/quantitative or categorical).

For each situation below, begin by choosing Chart Builder under Graphs.