**Measures of Central Tendency and Dispersion with SPSS**

The statistics for this week become the basis for several other tests you may do. These are the foundational concepts of statistics.

To prepare for this Application:

* + Review Chapter 15 and Appendix E in the course text *Research Methods in the Social Sciences*.
  + Review the video programs for this week, located in the Learning Resources..
  + Review Lessons 20 and 21 in the course text *Using SPSS for Windows and Macintosh: Analyzing and Understanding Data..*
  + Access the gss04student\_corrected dataset in the Course Information area of the classroom to use for this Application<.
  + Select one variable that is measured as a continuous or metric variable (age, Likert scale item, etc.) and one that is measured on a nominal scale (marital status, ethnicity, etc.). .

The assignment:

* + State the statistical assumptions of this test.
  + Using the data set and variables you have selected, use SPSS to calculate the following:
    - Mean
    - Median
    - Mode
    - Range
    - Minimum
    - Maximum
    - Standard deviation
  + Generate syntax and output files in SPSS. You will need to copy and paste these into your Application document.
  + Use one kind of chart (any kind) to describe the data
  + Based on your SPSS analysis, craft up to a one page double-spaced write up of the statistical results (include any additional pages needed for any APA tables or graphs and the SPSS syntax and output). Your report should include:.
    - SPSS syntax and output files
    - 1 chart