STCC201 Objectives for Class # 8 (02/08/07)

After today’s class you will be better able to:

1) Define the following terms:

| A) z-score | G) Scatter Plot | L) Moderate Correlation | Q) Dependent Variable |
| B) Standardized score | H) Correlation | M) Linear Correlation | R) Response Variable |
| C) Bell Shaped distribution | I) Association | N) Non-Linear Correlation | S) Independent Variable |
| D) BSD | J) Strong Correlation | O) Positive Correlation | T) Explanatory Variable |
| E) Empirical rule | K) Weak Correlation | P) Negative Correlation | U) Predictor Variable |
| F) Population template | | | |

2) State that the z-score is a measure of relative position of an observation

3) Given values for the mean, standard deviation, and an observation, compute the corresponding Z-score.

4) Interpret the Z-score calculated in Objective 8

5) Deduce the shape of a distribution from information on the mean and the median

6) State that the empirical rule is a general rule of thumb that applies to any bell shaped distribution

7) Use the empirical rule to determine an interval that contains a specified proportion of data values

8) Given an interval and the proportion of values within that interval, calculate the mean, median, standard deviation, and variance

9) Discuss the data types that are required to construct a scatter plot

10) Given a scatter plot, identify the strength and direction of correlation

11) Given an experimental setting, identify the dependent and independent variables

A) On-line Homework 3: is up and ready to take. It is due by next Tuesday February 13, 2007 at 8:00 AM. Access them via the www.iLrn.com website.

B) Lab #2: will be given out in recitation this Friday. This is a scored exercise and will be due by the end of the hour, so please plan on attending. For those of you with conflicts be sure to arrange for a copy so that you can have it turned in by 4:00 PM on Tuesday February 13, 2007.
C) Your first in class exam is scheduled for next Friday February 16, 2007 in your recitation sections. I have put up sample exam type questions on the class website.

D) **Extended time option:** For those who feel they would like more time I have arranged for us to use A102 Clark on Friday 2/16 from 3:10 to 4:30 PM. I will be sending around a sign-up sheet this week in your labs for those that want to take advantage of this opportunity. **You MUST** sign up if you plan on taking the exam during the extended time. **Lab section R08 is automatically enrolled for this. You guys will report to A102 Clark next Friday instead of your regular lab locations.**

E) Required materials for this exam (and all exams) are: #2 pencils, calculators, and tables (You won’t need tables for this exam). Optional materials include: 8½ by 11 cheat sheet. Handwritten both sides