STCC201 Objectives for Class # 7 (02/06/07)

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

1) Define following terms:

<table>
<thead>
<tr>
<th>A) Variance</th>
<th>D) $\sigma^2$</th>
<th>G) $s$</th>
<th>J) CV</th>
<th>M) Population template</th>
</tr>
</thead>
<tbody>
<tr>
<td>B) Standard deviation</td>
<td>E) $\sigma$</td>
<td>H) Coefficient of Variation</td>
<td>K) Empirical rule</td>
<td>N) Standardized score</td>
</tr>
<tr>
<td>C) Degrees of freedom</td>
<td>F) $S^2$</td>
<td>I) BSD</td>
<td>L) z-score</td>
<td>O) Bell shaped distribution</td>
</tr>
</tbody>
</table>

2) Given a set of data, compute the variance

3) State the relationship between the variance and the standard deviation and use this relationship to compute one from the other.

4) Given a set of data, compute the coefficient of variation

5) State that the CV statistic is used when comparing two distributions measured on different scales or to report dispersion relative to the sample average

6) Interpret computer output

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

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

9) Interpret the Z-score calculated in Objective 8

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

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.