Dale Story
POLS 3310

7/6/15

Formulas for Mid-Term

n = sample size
N = population size
$\bar{x}$ = mean
s^2 = variance
s = standard deviation

In all of our examples that involve either the variance or the standard deviation, the distinction between sample and population is not relevant (in terms of *n-1* or *n*). Always use whatever formula is provided to you on this sheet.

$$\bar{x} = \frac{\sum x_i}{n}$$

$$S.E.(\bar{x}) = \sqrt{\frac{\Sigma(x_i - \bar{x})^2}{n(n-1)}}$$

$$C.I. = \pm 1.96[S.E.(\bar{x})]$$