

## Final Study Guide

### **Ch. 1-7 as they apply to the following**

#### **Ch. 8 & 11 (variance/std. deviation) Confidence Intervals**

Like Quizzes – Telling which critical value is appropriate

Know for all Intervals

Using your calculator to find Critical Values

Margin of Error Calculation when appropriate

How to create the interval using the Margin of Error (what do you add/subt. it from?)

Remember that CI for Variance DOESN'T use E!!

Remember that the Chi-Square on the calculator uses are to the left of critical value

#### **Ch. 9 & 11 (variance) Hypothesis Testing**

Like Quizzes – Telling which test is appropriate

Know for all tests

Hypotheses Correct form

Critical Values

Test Statistics

Decision

Based on Traditional Method

Based on p-value

Based on Confidence Interval

#### **Ch. 10 Correlation & Regression**

Type of Correlation from visual inspection

Finding 2 Variable Summary Statistics

Calculation of correlation coefficient by hand

Testing the Hypotheses for Correlation

Hypotheses

Critical Value

Test Statistic

Decision

Finding the Regression Equation by hand

Predictions Made from Regression Equation

Coefficient of Determination

How to find

Meaning

## **Ch. 11 Goodness of Fit & Tests of Independence/Homogeneity**

When is Goodness of Fit vs. Homogeneity/Independence

Recall proportions for subpopulations vs. cross-tabulation

Difference between Independence & Homogeneity

Recall Gender Question (Effect of a Subpopulation) vs. Independence

How to calculate the Expected Values for Cells for either type

Hypothesis Testing for All

Hypotheses Correct form

Critical Values

Test Statistics

Decision

Based on Traditional Method

Based on p-value

## **Ch. 11 ANOVA**

Know that ANOVA is test of means for greater than 2 populations

Know the Hypotheses

Know how to conduct the test with calculator

Know how to fill out the table & relationships between

DF, SS, MS

How to create F

Decision based on P-value only