

The third exam will be administered on **Wednesday, April 23<sup>rd</sup> as an online exam through Canvas. You will need to have the Respondus “Lockdown” browser installed and have a webcam for the exam.** The exam will be Excel based problems covering material in lecture since the 2<sup>nd</sup> exam. You may use notes such as the Lecture Notes or lecture PowerPoint slides, but these must be in print form.

For Linear Regression be able to:

Interpret the least squares parameters from a particular example.

Interpret the meaning of the coefficient of determination,  $R^2$ .

Conduct hypothesis tests for the parameters of a least squares regression.

Understand the relationship between the regression slope parameter and the sample correlation coefficient between X and Y.

For ANOVA be able to

Conduct and interpret hypothesis tests for One-Way and Two-Way without replication designs.

For Correlation Analysis be able to

Conduct and interpret hypothesis tests for whether an individual correlation coefficient is different than zero; the equality of two correlation coefficients; the joint equality of three or more correlation coefficients.

For Non-Parametric Tests be able to

Conduct Goodness-of-fit tests and tests of independence/homogeneity.