EPSY 5244: Survey Design, Sampling, & Implementation Data Analysis Assignment

For the Data Analysis Lab, you can elect to use the results from the following U of M surveys or use data that you might have available from another project.

2001: CEHD Technology Survey

2002: CEHD Graduate Student Advising Survey

2003: U of M Budget issues and the Conceal & Carry Gun Law

2004: U of M Football Stadium and the National Elections

To complete the two tasks, use the guides available at the class website. Step-by-step procedures are described in these two documents:

1. Survey Data Analysis
2. Chi-Square Notes

LAB TASKS

1. Complete a Reliability Analysis
   1. Select a set of items (5 or more) that you would consider combining into a total summed score. These items should be on the same topic or measuring a common trait. Clearly state what you think the items are intended to measure.
   2. Conduct the reliability analysis. Obtain the item-total correlations and total score reliability. What does this tell you?
2. Complete one Chi-Square analyses
   1. Select two ordinal or categorical questions for which you are interested in exploring the bivariate association.
   2. Conduct a Chi-square test of independence for the pair of survey questions, report the results of the assumption check, Chi-square statistical significance, and Phi (for a 2x2 table) or Cramer’s Phi (for tables larger than 2x2) value. Use the paragraph in the Chi-Square handout online as a model for your interpretation.

Fully explain each step taken in tasks 1 and 2.