Math 101 Project 1

Group Portion (10 points)

1. You will be assigned to a group of 4 students. Be sure to get first names, LAST names and phone numbers from every person in your group.

2. Make sure you put your name with your group on the sign-up sheet, and include your phone number.

3. Determine how your group will obtain a good sample of 80-100 NIU students to be polled (see pages 59-62 in the text).

4. Conduct the poll, acquiring two pieces of information from each person you poll.

5. Compile all data together in a table from all group members for a total of 80-100 responses. There should be one common table that everyone in the group uses to answer the individual portion.

Individual Portion (10 points)

1. Carry out the Chi-Square test as discussed in class.

2. Write a report individually (no copying), though you should make sure your computations match all others in your group.

Grading of Group Portion (10 points)

1. Does your data table match all others in your group, and have at least 80 responses? Note that this means that to get full credit, you must cooperate with all members of your group, no exceptions. (6 points)

2. Does your report include FULL name of all group members, and clearly distinguish which name is yours? (2 points)

3. Does your report include your group letter? (2 points)

Grading of Individual Portion (10 points)

1. Is your report stapled in the upper-left corner? (2 points)

2. Does your report have recitation section? (2 points)

3. Does your report adhere to the following outline? (6 points)

   I. List your particular question.
   II. Discuss in specific detail the sampling plan you used.
   III. Summarize your data in a table.
   IV. Show all computations in executing the chi-square test including significance level, degrees of freedom, test statistic and reason for decision.
   V. Interpret in non-statistical English your decision (relate back to original question. How does this relate to your preconceived notions?)
Form A You are to ask the following question: “Do you support legalizing marijuana for medicinal purposes?” Your study is to determine if the answer to this question is independent of gender.

Form B You are to ask the following question: “Should the United States invade Iraq?” Your study is to determine if the answer to this question is independent of gender.

Form C You are to ask the following question: “Should NIU raise student fees to pay for more parking facilities?” Your study is to determine if the answer to this question is independent of if a person lives on campus.

Form D You are to ask the following question: “Should people be allowed to sue tobacco companies for smoking related illnesses.” Your study is to determine if the answer to this question is independent of if a person is a smoker.

Form E You are to ask the following question: “Should contraceptives be available in high schools?” Your study is to determine if the answer to this question is independent of gender.

Form F You are to ask the following question: “Should the drinking age in Illinois be lowered.” Your study is to determine if the answer to this question is independent of class status: lower classmen (freshman and sophomores) or upper classmen (all others).

Form G You are to ask the following question: “Should smoking be banned in the residence halls?” Your study is to determine if the answer to this question is independent of if a person lives in the residence halls.”

Note: You should have two pieces of information from each person you poll (example: gender and yes or no). Do not allow the person to elaborate, or insert extra conditions into the question. “No opinion” is an acceptable answer.