CJFS 3710 Social Statistics  **Study Guide for Exam One (6/2/17)** Summer 2017

1. How are statistics and knowing how to analyze data important? Provide three reasons using at least three sentences in support of either side you take.

2. Describe the typical research process and discuss how and where statistics and data analysis fit in among the various stages. How do statistics and theory relate to one another?

3. 3a)Describe the various types of variables (i.e. dichotomous, independent, dependent, covariate). 3b)When measuring a variable, what are at least three important issues to be addressed or considered? 3c)What are reliability and validity and the special concerns of each as they relate to research on the internet?

4. What are the different levels of measurement. Provide specific examples of variables that highlight each of the three levels of measurement.

5. What are the three measures of central tendency or how data are alike emphasized in class? Explain each.

6. For each of the three levels of measurement discussed in class, indicate the most appropriate measure of central tendency and dispersion.

7. What are the three measures of dispersion or how data are different emphasized in class? Explain each.

8. Describe what a normal curve is, along with its key characteristics.

9. What are Z scores? Be sure to include the uses of Z scores.

10. What are the various things (i.e. 3 “p”s) that may be represented by the normal curve?

11. Be able to organize data into frequency distributions and describe descriptive profiles.

12. Be able to convert data given into proportions, percentages, percentiles, rates, or ratios and interpret them.

13. When given certain information, perform and explain the calculations to find the number of cases in a hypothetical problem.

14. Be able to calculate and interpret the different measures of central tendency and dispersion (choosing the most appropriate for a given variable or level of measurement).

15. Show all steps in your calculations for the problems.

16. Be able to calculate the area beneath a normal distribution (i.e. proportion, percentage, or probability) in relation to certain scores. For example, given a particular mean and standard deviation be able to find the area between two scores, above a score, below a score, from a score to the mean, and the probability of getting a certain score.

17. When constructing or interpreting statistics displayed graphically, describe 4 pieces of advice to put into action.

*\*On the day of the exam, remember to ask for clarification if a problem or question is worded poorly and to show all work to the problems!*

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Summer 2017

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<http://proxy.ohiolink.edu:9099/login?url=http://search.ebscohost.com> (off campus link)

Use these databases to find articles (scholarly and popular) on many different topics, including Criminal Justice.

**MaagNet** <http://jupiter.ysu.edu/search>

The library’s card catalog or OPAC. Use this to locate books, journals, CDs, DVDs, etc. which are housed in Maag Library.

**Criminal Justice Subject Page**  <http://maag.guides.ysu.edu/criminaljustice>

This page contains many different Criminal Justice resources, including books, journals and databases.

**MaagNet/ILL Article Request Form** <http://jupiter.ysu.edu/screens/articleill.html>

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