Bemidji State University

SOC 3001: Social Statistics

A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: *.*

Lab Hours/Week: *.*

OJT Hours/Week: *.*

Prerequisites: None Corequisites: None

MnTC Goals: None

Covers a conceptual understanding of basic descriptive and inferential statistics. Choice of statistic and interpretation of SPSS results is discussed. Prerequisite: Completion of Liberal Education mathematics requirement (Goal Area 4) or consent of instructor.

B. COURSE EFFECTIVE DATES: 08/25/1997 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

- 1. Introduction to the course
- 2. Functions of statistics, basic math review; levels of measurement
- 3. Proportions, percentages, rates and ratios, percentage change
- 4. Frequency distributions; SPSS and frequency distributions
- 5. Charts and Graphs; SPSS and charts and graphs
- 6. Measures of Central Tendency and SPSS
- 7. Measures of Dispersion and SPSS
- 8. The Normal Curve
- 9. Introduction to Inferential Statistics, the Sampling Distribution, and Estimation
- 10. Hypothesis testing
- 11. Introduction to Bivariate Association and Measure of Association for Variables Measured at the Nominal Level
- 12. Association between variables measured at the ordinal level
- 13. Association between variables measured at the interval-ratio level

D. LEARNING OUTCOMES (General)

- 1. be able to determine, calculate, and interpret statistics that describe distributions;
- 2. be able to report statistical findings in a professional manner;
- 3. be able to describe the properties of the normal curve as it pertains to statistical decision making;
- 4. be able to understand the key concepts and procedures related to generalizing from samples to populations;
- 5. be able to determine, calculate, and interpret select statistics used for hypothesis testing and testing the existence and strength of relationship between two variables;
- 6. be able to assess data quality and its relationship to choice of statistic;
- 7. be able to use SPSS as a software tool to conduct statistical analyses.

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E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted

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