

Minnesota State University Moorhead

PSY 633: Statistics/Methods for School Psychologists

A. COURSE DESCRIPTION

Credits: 2

Lecture Hours/Week: 2

Lab Hours/Week: 0

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: None

MnTC Goals: None

Examines principles of univariate and non-parametric statistics, including inferential tests, correlations, and regression, as well as critical analysis and interpretation of school psychology relevant research articles. Also includes examination of experimental, quasi-experimental, survey, and descriptive research, focusing on designs, validity, power, effect size, and ethical principles. Prerequisite: One course in statistics.

B. COURSE EFFECTIVE DATES: 08/25/2008 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

D. LEARNING OUTCOMES (General)

1. Students will apply appropriate univariate inferential statistics to research designs. Evaluate applications of those statistics in terms of parametric assumptions. Use SPSS to analyze data using univariate inferential statistics.
2. Students will develop research questions in terms of specific, testable hypotheses. Will also identify and evaluate research questions and hypotheses in published articles.
3. Students will explain characteristics of, and differences among, experimental, quasi-experimental, qualitative and descriptive research designs.
4. Students will explain the uses and limitations of ANCOVA and MANOVA.
5. Students will explain the uses and limitations of correlation, linear regression, and multiple regression.
6. Students will identify and explain basic principles, uses, and limitations of survey research and non-parametric statistics.
7. Students will explain internal and external validity, power, and effect size.
8. Students will identify and explain ethical principals in research, in terms of APA guidelines.
9. Students will produce written and verbal reports summarizing research findings in non-technical language.

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

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted