

Minnesota State University Moorhead

MATH 134: Applied Statistics

A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 3

Lab Hours/Week: 0

OJT Hours/Week: *.*

Prerequisites:

This course requires any of these three prerequisites

MATH 090 - Elementary Algebra

MATH 090A - Elementary Algebra

MSUM MATH 99 and 110 and 134

Corequisites: None

MnTC Goals: Goal 04 - Mathematical/Logical Reasoning

Frequency distributions, introduction to probability, normal distribution, central limit theorem, estimation, tests of hypotheses, non-parametric techniques, design of experiments, one-way and two-way analysis of variance, and simple linear regression. MnTC Goal 4

B. COURSE EFFECTIVE DATES: 02/02/2019 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Frequency distributions, introduction to probability, normal distribution, central limit theorem, estimation, tests of hypotheses, non-parametric techniques, design of experiments, one-way and two-way analysis of variance, and simple linear regression

D. LEARNING OUTCOMES (General)

1. Use a variety of statistical methods to analyze data.
2. Understand the requirements of a statistical test, and know when it is applicable.
3. Understand what statistical analyses can and cannot tell the researcher about the data.

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

Goal 04 - Mathematical/Logical Reasoning

1. Illustrate historical and contemporary applications of mathematical/logical systems.
2. Clearly express mathematical/logical ideas in writing.
3. Apply higher-order problem-solving and/or modeling strategies.

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted