STAT 1100: Statistical Reasoning

A. COURSE DESCRIPTION

Credits: 3
Lecture Hours/Week: 0
Lab Hours/Week: 0
OJT Hours/Week: *.*
Prerequisites: None
Corequisites: None

MnTC Goals: Goal 04 - Mathematical/Logical Reasoning

A non-theoretical course designed to improve a student's statistical literacy. Topics include: describing distributions; introduction to sampling and study design; creating and interpreting data representations; introduction to probability; statistical issues in the news; interpreting statistical inferences. [Core Curriculum Goal Area 4.]

B. COURSE EFFECTIVE DATES: 05/07/2023 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Math and statistics:
   - Gathering data
   - Organizing data
   - Displaying data
   - Analyzing data
   - Drawing conclusions from data analysis

D. LEARNING OUTCOMES (General)

1. create and interpret graphical and summative displays of data
2. distinguish among sampling techniques.
3. distinguish and evaluate study designs.
4. apply general rules of probability to solving problems.
5. apply statistical reasoning to the evaluation of real-world situations.

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