Bemidji State University

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