Bemidji State University

STAT 0800: Companion to Statistical Reasoning

A. COURSE DESCRIPTION
   Credits: 1
   Lecture Hours/Week: 0
   Lab Hours/Week: 0
   OJT Hours/Week: *
   Prerequisites: None
   Corequisites: None
   MnTC Goals: None

   An optional companion course designed to support students concurrently enrolled in STAT 1100, this course will provide support for Statistical Reasoning, including supplementary instruction and just-in-time review of prerequisite concepts. Topics, which will parallel those in STAT 1100, include shape, center and spread of distributions; sampling methods; representing data; and basic probability. This course is intended strictly as support for STAT 1100 and does not fulfill a college goal area requirement.

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

C. OUTLINE OF MAJOR CONTENT AREAS
   1. Mathematics and Statistics

D. LEARNING OUTCOMES (General)
   1. describe key features of a distribution of data.
   2. create and interpret graphs of distributions.
   3. distinguish among sampling techniques.
   4. distinguish among study design types.
   5. evaluate the quality of study design.
   6. recognize the role of probability in statistical analysis.
   7. describe the effect of sample size on statistical outcomes.
   8. general rules of probability to solving problems.
   9. apply statistical reasoning to the evaluation of news reports.
   10. understand how inferences about populations are made from sample data.

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies
   None

F. LEARNER OUTCOMES ASSESSMENT
   As noted on course syllabus

G. SPECIAL INFORMATION
   None noted