Bemidji State University

MATH 6600: Probability For Teachers

A. COURSE DESCRIPTION

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

Introduction to the terms and models of elementary probability. Emphasizes instructional strategies to help all students learn. Topics include definition of terms, the counting principle, event modeling, event analysis, probability determinations, empirical and theoretical probabilities, and use of simulations to analyze real world problems. Prerequisite: Teaching experience or consent of the instructor.

B. COURSE EFFECTIVE DATES: 08/21/2017 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Basic set theory
2. Counting techniques
3. Elementary probability theory
4. Empirical vs theoretical probabilities
5. Simulations

D. LEARNING OUTCOMES (General)

1. understand basic probability words, symbols, and terms.
2. use counting techniques to solve probability problems.
3. articulate the differences between empirical and theoretical probabilities and know when to use each to solve problems.
4. use simulations to solve basic probability problems.
5. become familiar with MN K-12 mathematics standards related to probability.

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

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted