MATH 123 - Statistical and Geometrical Concepts for Elementary School Teachers  
(3 Credits)

DESCRIPTION:

Mathematics needed by those teaching the new-content curriculum at the elementary school level, emphasizing concepts in statistics, geometry, and probability. Prerequisite: Math 122 with a grade of C or better.

TEXT:

Mathematics for Elementary School Teachers, 5th edition; Bassarear
Mathematics for Elementary School Explorations, 5th edition; Bassarear
NOTE: Full-time instructors have the right to use no text or a different text.

OUTLINE:

Ch 06 - All Sections  
Ch 07 - All Sections  
Ch 08 - All Sections  
Ch 09 - All Sections  
Ch 10 - All Sections

OUTCOMES:

a. Understand the mathematics that he/she will be expected to teach.  
b. Express that understanding to a student or teacher.  
c. Structure the learning of another, specifically a student, in a way that is logical but also learnable.  
d. Develop some facility to think about mathematics and mathematical ideas.  
e. Become autonomous (self-governing, able to undertake or carry out without outside control) in both mathematical work and evaluation of that work.  
f. Work with manipulatives on topics taught in elementary school.  
g. Become an accomplished problem solver and critical thinker.

EVALUATION:

Grades will be determined by student performance in one or more of the following areas: in-class tests, take-home tests, homework assignments, quizzes, special projects, papers, attendance, and class participation. Degree of importance and types of assessment used will depend on the instructor.

This course DOES NOT satisfy the Math component of a degree or certificate program at CSN.

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