

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, 4th Edition, Bassarear
Mathematics for Elementary School Explorations, 4th 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. However, at least 50% of the course grade used is to be determined by proctored individual exams/assessments.

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