

Course Number: Math 207

Course Name: Topics in Mathematics for Teachers

Prerequisite: MATH 106 with at least a “C” grade

COURSE DESCRIPTION

A continuation of MATH 106. Development of basic concepts of number theory, combinatorial counting, probability, statistics, functions, sequences and series as appropriate for primary and middle school teachers. Development of these concepts will focus on the Ohio Standards and the Grade Level Indicators.

Instruction will also focus on the development of these concepts through the use of hands-on manipulatives, calculators, and other appropriate technology. The role of technology and the NCTM Standards for the teaching and learning of mathematics will be demonstrated, explored and discussed.

COURSE GOALS

To introduce the student to a deeper understanding of mathematical concepts, methods and applications in the context of a primary and middle school teacher.

MATH 207 deals with combinatorics, probability, statistics, functions, sequences and series, logic, number theory, and general mathematical skills. Students should learn and develop an appreciation for mathematical constructs and algorithms and be familiar with a variety of ways to approach and illustrate mathematical problems.