

Course Number: Math 105

Course Name: Fundamental Mathematics Concepts for Teachers I

Prerequisite: MATH 104 with at least a “C” grade

COURSE DESCRIPTION

This course is designed to introduce the basic concepts of arithmetic and problem solving 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 the concepts, methods and applications of arithmetic in the context of an elementary school teacher. Students should learn and develop an appreciation for mathematical constructs and algorithms and be familiar with a variety of ways to approach and illustrate arithmetic problems.

REQUIRED TEXTBOOK AND RESOURCES

Beckmann, S. (2011). Mathematics for Elementary Teachers with Activity Manual