

Course Number: Math 106

Course Name: Fundamental Mathematics Concepts for Teachers II

Prerequisite: MATH 105 with at least a “C” grade

COURSE DESCRIPTION

A continuation of MATH 105. Development of basic concepts of Inductive Geometry, Deductive Geometry, and Measurement, 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 geometry in the context of a primary and middle 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 geometry problems.

REQUIRED TEXTBOOK AND RESOURCES