

Math 106 - Concepts and Structures of Elementary Mathematics II

1. Course Description

This course is a continuation of MATH 105 and covers the same material as MATH 105. It is designed for students who have completed MATH 105 and are interested in a deeper understanding of the concepts and structures of elementary mathematics. The course includes a study of the real number system, the complex number system, and the theory of groups and rings. It also covers the theory of polynomials and the theory of congruences. The course is intended for students who are preparing for graduate study in mathematics or who are interested in a career in research in mathematics.

Length of Course	Prerequisites	Course Number	Course Title	Credits
17 weeks	MATH 105 (Concepts and Structures of Elementary Mathematics I)	106	Concepts and Structures of Elementary Mathematics II	3

5. What prior knowledge students need to know to be successful?

Success in MATH 105

Knowledge in Prerequisites

- Addition, multiplication, division, and subtraction of integers, fractions, and real numbers.
- Understanding of algebraic operations and the properties of real numbers.
- Inequality knowledge ($<$, $>$, \leq , \geq).
- Being able to solve linear equations and inequalities.

General Knowledge

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like eagle, eagle, et.