



MONROE COUNTY
COMMUNITY COLLEGE

Course Outcome Summary

Standard Course

Math 156 Mathematics for Elementary Teachers I

Course Information

Division	Science/Mathematics
Contact Hours	45
Total Credits	3

Prerequisites MATH 151 or qualifying scores on accepted placement tests

Course Description

This course is an introduction to the theory of arithmetic to develop understanding and skill in mathematical processes. It consists of set theory, logic, number bases, properties of natural numbers, integers, and rational and real numbers. An emphasis is put on the use of manipulatives and problem solving. The purpose of the course is to provide the future elementary teacher with a perspective for understanding the mathematics taught in the elementary school.

Course Outcomes

In order to evidence success in this course, students will be able to:

1. Identify strategies for problem solving.
2. Identify terms and symbols used in set theory.
3. Identify numeration systems.
4. Identify algorithms for mathematical operations in different bases;
5. Identify divisibility tests.
6. Identify exponent properties.
7. Identify properties of rational and real numbers.
8. Demonstrate solutions to problems involving set relations and set operations.
9. Demonstrate counting using various numeration systems.
10. Solve problems involving number bases other than ten.
11. Apply properties of the whole numbers.
12. Work with concepts of number theory.
13. Work with ratio, proportions and percents.
14. Apply the properties of integers, rational and real numbers.

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