

# MAT120 : Mathematics for Elementary & Early Childhood Educators I

This course is designed for students planning to teach Elementary and/or Early Childhood Education. Students develop an understanding of the mathematical content of numbers and operations at the deep level required for successful elementary school teaching in ways that are meaningful to pre-service elementary and early childhood educators. Topics include: critical thinking skills; sets and operations on sets; the whole number system and its operations; place value and arithmetic models; mental math; algorithms; pre-algebra; factors, divisibility, prime numbers, elementary number theory, and their applications; the integers and its operations; clock arithmetic; fractions and rational numbers; decimals and the real number system; ratios, rates, and proportions; and percents.

**Credits** 3

## **Prerequisites**

[MAT035](#): Algebra for Non-STEM or [MAT045](#): Intermediate Algebra for STEM or satisfactory basic skills assessment score and [ECE100](#): Introduction to Early Childhood Education or [EDU101](#): Foundation of Education

## **Semester Offered**

Fall