## MATH 098 Pre-Algebra

This course introduces numbers and number systems, prime numbers, fractions, order of operations, rules of algebra, linear equations and graphs of straight lines, ratios, rates and proportions, direct and inverse variation, percentages, simple interest rates, areas, and volumes of simple geometric figures.

*(Pre-requisites: None)*

## Course Learning Outcomes:

By the end of the course, students will be able to:

1. Select suitable steps to perform numerical calculations and simple algebraic operations.
2. Use mathematical models such as equations, formulas, graphs, tables, functions, shapes and/or figures.
3. Apply mathematical models such as equations, formulas, graphs, tables, functions, shapes and/or figures to real life problems.

## Textbook & Course Materials:

- Aufmann, R. N., Barker, V. C., Lockwood, J., Prealgebra. Cengage

## Course Content:

1. Whole Numbers
2. Integers
3. Fractions
4. Decimal and Real Numbers
5. First-Degree Equation
6. Measurement and Proportion
7. Percent
8. Geometry
9. Statistics and Probability