

MTH 60: Introductory Algebra - First Term

Introduces algebraic concepts and processes with a focus on linear equations, linear inequalities, and systems of linear equations. Emphasizes number-sense, applications, graphs, formulas, and proper mathematical notation. Prerequisites: MTH 20 and (RD 80 or ESOL 250) or equivalent placement. The OCCC math department recommends that students take MTH courses in consecutive terms. Audit available.

Addendum to Course Description

A scientific calculator and access to a graphing utility may be required.

Students are no longer required to have physical graphing calculators in MTH 60, 65, 70, 95, 111, and 112. Where physically possible, instructors will demonstrate using Desmos, GeoGebra, or other online programs in class. Assessments requiring the use of a graphing utility may be done outside of proctored exams.

Course Student Learning Outcomes

Upon completion of the course students should be able to:

- Simplify and evaluate algebraic expressions using order of operations and properties of real numbers.
- Solve linear equations and inequalities in one variable.
- Create linear equations and inequalities that model contextual situations and use the model to make predictions.
- Identify and interpret the slope as a rate of change in linear relationships.
- Represent linear relationships between two variables using a graph, table, verbal description, and algebraic formula
- Select and apply appropriate geometric formulas to solve problems related to spatial and dimensional analysis

Credits: 4

Program: [Mathematics](#)