University of Houston
Department of Mathematics
Math 1310 College Algebra

Prerequisite:

The prerequisite for this course is to have met one or more of the following requirements:

1. A total SAT score of 900 or more.
2. An SAT mathematics subscore of 530 or more.
3. An ACT composite score of 21 or more.
4. A score of 250 or more on the THEA Math test.
5. Completed MATH 1300 at UH-Central or UH-Downtown and received a grade of "S".
6. Obtained a score of 13 or better on the Basic Algebra (BA) section of the UH Math Placement Exam.

Students with credit in Math 1330 or 1431 will not be allowed to enroll and receive credit in Math 1310.

Course Description: Quadratic equations, inequalities, logarithmic and exponential functions, graphs, elements of theory of equations, systems of equations.

Textbook: Available Online

Course Policies (pdf version)

An Introduction to Graphs and Lines

Points, Regions, Distance and Midpoints
Lines
Graphing Equations

Solving 2 x 2 systems of equations

Solving Equations and Inequalities
Linear Equations
Quadratic Equations
Complex Numbers
Linear Inequalities
Absolute Value

An Introduction to Functions

Basic Ideas
Functions and Graphs
Variation
Transforming Functions
Maximum and Minimum Values
Combining Functions
Inverse Functions

Polynomial and Rational Functions

Polynomial Functions
Dividing Polynomials
Roots of Polynomials
Rational Functions

Exponentials and Logarithms

Exponential Functions
The Number e
Logarithms
Properties of Logarithms
Exponential and Logarithmic Equations