# Bronx Community College of The City University of New York <br> Department of Mathematics and Computer Science 

Syllabus: MTH 30 Precalculus
Corequisite: MTH 06 or equivalent
Text: Precalculus by Paul Sission, Hawkes Lerning Systems,
SECTION TOPIC

## Chapter 3: Relations, Functions, and Their Graphs

3.1 Relations and Functions
3.2 Linear and Quadratic Functions
$3.3 \quad$ Other Common Functions
3.5 Transformations of Functions
$3.6 \quad$ Combining Functions
$3.7 \quad$ Inverses of Functions

## Chapter 4: Polynomial Functions

4.1 Introduction to Polynomial Equations and Graphs
4.2 Polynomial Division and Division Algorithm
4.3 Locating Real Zeroes of Polynomials
$4.4 \quad$ The Fundamental Theorem of Algebra
$4.5 \quad$ Rational Functions and Rational Inequalities

## Chapter 5: Exponential and Logarithmic Functions

5.1 Exponential Functions and Their Graphs
5.2 Applications of Exponential Functions
5.3 Logarithmic Functions and Their Graphs
5.4 Properties and Applications of Logarithms
5.5 Exponential and Logarithmic Equations

## Chapter 6: Trigonometric Functions

6.1 Radian and Degree Measure of Angles
6.2 Trigonometric Functions of Acute Angles
6.3 Trigonometric Functions of Any Angle
6.4 Graphs of Trigonometric Functions
6.5 Inverse Trigonometric Functions

## Chapter 7: Trigonometric Identities and Equations

7.1 Fundamental Identities and Their Uses
7.2 Sum and Difference Identities
7.3 Product-Sum Identities
7.4 Trigonometric Equations

