MATH 1308
Precalculus for Business Students

Text: Mathematics with Applications in the Management, Natural, and Social Sciences,
13th Edition by Lial, Hungerford, Holcomb, and Mullins
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Detailed Course Description:

Algebra and Equations
The Real Numbers
Polynomials
Factoring
Rational Expressions
Exponents and Radicals
First-Degree Equations
Quadratic Equations

Graphs, Lines, and Inequalities
Graphs
Equations of Lines
Linear Models
Linear Inequalities
Polynomial and Rational Inequalities

Functions and Graphs
Functions
Graphs of Functions
Applications of Linear Functions
Quadratic Functions and Applications
Polynomial Functions
Rational Functions

Exponential and Logarithmic Functions
Exponential Functions
Applications of Exponential Functions
Logarithmic Functions
Logarithmic and Exponential Equations

Mathematics of Finance
Simple and Compound Interest
Annuities, Future Value, and Sinking Funds

Systems of Linear Equations and Matrices
Systems of Two Linear Equations in Two Variables
Larger Systems of Linear Equations
Applications of Systems of Linear Equations
Basic Matrix Operations
Matrix Products and Inverses
Applications of Matrices