

SYLLABUS

Date	Sections covered
Week 1	Introduction 1.1 - Linear Equations 1.2 - Quadratic Equations 1.4 - Radical Equations; Equations Quadratic in Form; Factorable Equations
Week 2	1.5 - Solving Inequalities 1.6 - Equations and Inequalities Involving Absolute Value 1.7 - Problem Solving: Interest, Mixture, Uniform Motion and Constant Rate Job Applications
Week 3	2.1 - The Distance and Midpoint Formulas 2.2 - Graphs of Equations in Two Variables; Intercepts; Symmetry 2.3 - Lines
Week 4	2.4 - Circles 3.1 - Functions 3.2 - The Graph of a Function
Week 5	Exam 1 - Sections 1.1, 1.2, 1.4–1.7, 2.1–2.4, 3.1, 3.2 (September 14–17)
Week 5	3.3 - Properties of Functions 3.4 - Library of Functions; Piecewise-defined Functions 3.5 - Graphing Techniques: Transformations
Week 6	3.6 - Mathematical Models: Building Functions 4.1 - Linear Functions and Their Properties 4.3 - Quadratic Functions and Their Properties
Week 7	4.4 - Quadratic Models; Building Quadratic Functions from Data 4.5 - Inequalities Involving Quadratic Functions 5.1 - Polynomial Functions and Models
Week 8	5.2 - Properties of Rational Functions 5.3 - The Graph of a Rational Function 5.4 - Polynomial and Rational Inequalities
Week 9	Exam II - Sections 3.3–3.6, 4.1, 4.3–4.5, 5.1–5.4 (October 12–15)
Week 9	5.5 - The Real Zeroes of a Polynomial Function 6.1 - Composite Functions 6.2 - One-to-One Functions; Inverse Functions
Week 10	6.3 - Exponential Functions 6.4 - Logarithmic Functions

Week 11	6.5 - Properties of Logarithms 6.6 - Logarithmic and Exponential Equations
Week 12	6.7 - Compound Interest 6.8 - Exponential Growth and Decay Models; Newton's Law; Logistic Growth and Decay Models
Week 13	Exam III - Sections 5.5, 6.1–6.8 (November 9–12)
Week 13	8.1 - Systems of Linear Equations; Substitution and Elimination 8.6 - Systems of Nonlinear Equations
Week 14	9.5 - The Binomial Theorem 7.1 - Conics 7.2 - The Parabola
	Thanksgiving Break, November 23-27 (No Class)
Week 15	7.3 - The Ellipse 7.4 - The Hyperbola
Week 16	Comprehensive Final Exam (December 7–9)