Math 195 Syllabus

Texts: Openstax Algebra and Trigonometry and Openstax Intermediate Algebra (Chapter 11)

SECTIONS	TOPICS
Chapter 3	FUNCTIONS
3.1	Function and Function Notation (include evaluating functions from a table, graph and algebraic function, go over one to one, vertical and horizontal line test)
3.2	Domain and Range, (writing in interval form) including graphing a Piece-Wise Function
3.3	Rates of Change and the Behavior of Graphs
3.4	Composition of Functions
3.5	Transformations of Functions
3.6	Absolute Value Functions
3.7	Inverse Functions
4.1	Linear Functions
Chapter 5	POLYNOMIAL AND RATIONAL FUNCTIONS
5.1	Quadratic Functions
5.2	Power Functions and Polynomial Functions
5.3	Graphs of Polynomial Functions
5.4	Dividing Polynomials
5.5	Zeros of Polynomial Functions
5.6	Rational Functions
5.7	Inverse and Radical Functions
Chapter 6	EXPONENTIAL AND LOGARITHMIC FUNCTIONS
6.1	Exponential Functions
6.2	Graphs of Exponential Functions
6.3	Logarithmic Functions
6.4	Graphs of Logarithmic Functions
6.5	Logarithmic Properties
6.6	Exponential and Logarithmic Equations
6.7	Exponential and Logarithmic Models
CHAPTER 7 and 8	The Unit Circle; Sine, Cosine functions and Periodic Functions
7.1	Angles
7.2	Right Triangle Trigonometry
7.3	Unit Circle
7.4	The Other Trig Functions
8.1	Graphs of Sine and Cosine Functions
8.2	Graphs of Other Trig Functions
8.3	Inverse Trig Functions
CHAPTER 9	TRIG IDENTITIES AND EQUATIONS
9.1	Verifying Trigonometric Identities and Using Trigonometric Identities to Simplify Trig Expressions
9.2	Sums and Difference Identities
9.3	Double-Angle, Half-Angle Formulas
9.5	Solving Trig Equations
Chapter 11	(Intermediate Algebra) Conics
11.1	Distance and Midpoint Formulas; Circles
11.3	Ellipses
11.5	Solve System of Non-Linear Equations