

Math 1B:

Text: [Precalculus](#) by Barnett, Ziegler, and Byleen.

The textbook is correlated within ALEKS.

The ALEKS syllabus breaking up the content below can be found [here](#).

SECTION	TOPIC
R1-R4	Algebra Review
1.1	Linear Equations
1.2	Linear Inequalities
1.3	Absolute Value in Equations and Inequalities
1.4	Complex Numbers
1.5	Quadratic Equations
1.6	Additional Equation Solving Techniques
2.1	Cartesian Coordinate Systems
2.3	Equations of Lines
2.4	Linear Equations and Models
3.1	Functions
3.2	Graphing Functions
3.3	Transformations of Functions
3.4	Quadratic Functions
3.5	Operations on Functions; Composition
3.6	Inverse Functions
	Midterm Exam
5.1	Exponential Functions
5.3	Logarithmic Functions
5.5	Exponential and Logarithmic Equations
6.1	Angles and their Measure
6.2	Trigonometric Functions: A Unit Circle Approach
6.3	Solving Right Triangles
6.4	Properties of Trigonometric Functions
6.5	More General Trigonometric Functions and Models
6.6	Inverse Trigonometric Functions
7.1	Basic Identities and Their Use
7.2	Sum, Difference, and Cofunction Identities
7.3	Double-Angle and Half-Angle Identities
7.5	Trigonometric Equations
8.1	Law of Sines
8.2	Law of Cosines
	Final Exam