**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](https://drive.google.com/open?id=1dMTwiJM8v9Uqv70Q7oHYg22fqp8KIZT1).

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| **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** |