## Math 1060 Topics

(based on the OER text found at precalcandtrig.net)

| Section | Topic | Days |
| :---: | :---: | :---: |
| Review | Introduction and prereqs (algebra, factoring, etc). | 1 |
| 4.1 | Introduction to Angles and Radians, arc length and sector area, linear vs. angular speed | 2 |
| 4.2 | Right triangle trig, special right triangles | 2 |
| 4.3 | Trigonometry in the Coordinate Plane | 2 |
| 5.1 \& 5.2 | The Unit Circle and special unit circle values | 1 |
| 5.3 | Graphing Sine and Cosine Functions, identifying features of sinusoidal functions, writing equations of sinusoidal functions from graphs | 2 |
| 5.4 | Graphing Other Trigonometric Functions | 2 |
| 5.5 | Inverse Trigonometric Functions | 1.5 |
| 5.6 | Solving Basic Trigonometric Equations - by inspection, using inverses, with complicated inputs, using algebra | 1.5 |
| 6.1 | Fundamental Trigonometric Identities - applying, simplifying, and verifying identities | 2 |
| 6.2 | Sum and Difference Identities - applying, simplifying, and verifying identities | 2 |
| 6.3 | Double, Reduction, and Half Angle Identities- applying, simplifying, and verifying identities | 2 |
| 6.5 | Solving trigonometric equations involving identities | 1 |
|  | Days for extra coverage, catch up, reviews, exams | 8 |
|  | Total | 30 |

