

## Pre-Calculus Curriculum Alignment Trimester 2

Unit	Objectives	Content Expectations
<b>8 days More Modeling with trigonometry</b>	Inverse Sines and Cosines, Tangents, Shifting Trig Equations, Sum and Difference Identities, Sinusoidal Modeling, Double and Half-Angle, Combining Identities	<b>P1.1, P6.1, P6.3, P6.4, P6.5, P6.6</b>
<b>8 Days Modeling With Statistical Analysis</b>	<b>Linear Models, Variation, non shifted parabola, Statistical functions on Calcs, Regression Lines, Starightening Exponentials, Power Functions</b>	<b>FST benchmarks moved to Pre-Calc</b>
<b>7 days Vectors and Trigonometry</b>	Area formula, Law of Sines, Law of Cosines Vector operations, Dot Product Applications of Laws and Vectors	<b>P7.1, P7.2, P6.5</b>
<b>10 days Limits</b>	Angles, Infinity, Rational Functions, e, Fibonacci Sequence, Infinite sums, Geometric Series, Harmonic Series	<b>P 1.7, P5.2, P5.3, P8.2, P8.3, P 8.4</b>
<b>3 Days Polar Coordinates</b>	Polar coordinates, graphs, Converting coordinates, Polar Functions	<b>P 9.1, P9.2, P9.3, P 9.4</b>
<b>7 days College Readiness</b>	Conic Sections, circles, ellipses, Hyperbolas, Asymptotes, Parabolas, 2 <sup>nd</sup> degree	<b>P 5.2, P1.6, P9.7, P9.8, P9.9, 9.10</b>
<b>7 Days Rates of Change</b>	Average rates of change, average velocity derivative, distance graphs,	<b>Calculus benchmarks</b>