

Pre-Calculus Pacing Guide 2017-2018
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	Unit Lessons	CCRS Objective(s)
Week 1	Unit 1: Radians and Degrees, Trig Functions & the Unit Circle	20 [F-TF3]
Week 2	Unit 1: Graphing Trig Functions & Equations of Trig Functions	30 [F-TF4]
Week 3	Unit 1: Fitting Trig Models to Data and Statistics, Trig Identities	16 [F-IF4]
Week 4	Unit 1: Sum and Difference Formulas, Double/Half Angle Formulas, Trig Equations	18 [F-IF7] AL 26
Week 5	Unit 1: Law of Sines/Cosines, Review & Test	AL27, AL29 32 [F-TF7] 33 [F-TF8] 34 [F-TF9] 35 [G-SRT9]
Week 6	Unit 2: Intro to Vectors, Vector Operations, Applications of Vectors	5 [N-VM1], 6 [N-VM2]
Week 7	Unit 2: Vectors as Matrices, Parametric Equations	7 [N-VM3], 8 [N-VM4] 9 [N-VM5], 10 [N-VM11] 11 [N-VM12], 14 [A-RE18]
Week 8	Unit 2: Applications of Parametric Equations, PVA, Complex Numbers	AL 28, 16 [F-IF4] 17 [F-IF6], 18 [F-IF7] 1 [N-CN4], 2 [N-CN5] 3 [N-CN6], 4 [N-CN5]
Week 9	Unit 2: Review & Test, Nine Weeks Review	
Week 10	Unit 3: Intro to Conics, Parabolas	AL 15, 36 [G-GPE2]
Week 11	Unit 3: Ellipses & Circles, Hyperbolas	37 [G-GEP3]
Week 12	Unit 3: Transformation of Conics	
Week 13	Unit 3: Review & Test	
Week 14	Unit 4: Boxplots, Empirical Rule and Normal Distribution, Probabilities	13 [A-APR5], 39 [S-ID2], 40 [S-ID3], 41 [S-ID4], 44 [S-IC1], 45 [S-IC2], 46 [S-IC3], 47 [S-IC4], 48 [S-IC5], 49 [S-IC6]
Week 15	Unit 4: Probability Applications	50 [S-MD2], 51 [S-MD2], 52 [S-MD3], 53 [S-MD4],
Week 16	Unit 4: Review & Test	

		54 [S-MD5]
Week 17	Semester Review	
Week 18	Semester Exam	
Week 19	Unit 5: Graphing Calculator: Graphing Equations, Symmetry, Linear Regression	16 [F-IF4], 17 [F-IF6], 18 [F-IF7]; 19 [F-BF1] 42 [S-ID8], 43 [S-ID9];
Week 20	Unit 5: Graphing Calculator: Functions, Domain, Range, Piecewise Functions	
Week 21	Unit 5: Basic Function Graphs, Translation of Graphs	
Week 22	Unit 5: Composition of Functions, Inverse Functions	
Week 23	Review & Test	
Week 24	Unit 6: Graphs of Polynomial Functions	16 [F-IF4], 17 [F-IF6] 18 [F-IF7], AL 20, 21 [F-BF4], 22 [F-BF4], AL4
Week 25	Unit 6: Graphs of Rational Functions	
Week 26	Unit 6: Review & Test	
Week 27	Unit 7: Exponentials & Logarithms, Log Equations	16 [F-IF4], 17 [F-IF6] 18 [F-IF7] AL 20, 22 [F-BF4], 24 [F-BF5], AL 25
Week 28	Unit 7: Exponential Equations, Exponential Growth/Decay	
Week 29	Unit 7: Continuous Compounding, Review & Test	
Week 30	Unit 8: Limits, Average vs Instantaneous Rate of Change	AL 4 16 [F-IF4], 17 [F-IF6], Calculus Prep
Week 31	Unit 8: Rates of Change, Slope of Secant Line and Limits	
Week 32	Unit 8: Mechanics of Derivatives	
Week 33	Unit 8: Mechanics of Derivatives, Particle Motion & PVA	
Week 34	Unit 8: Number Line Analysis, Accumulation, Review	
Week 35	Unit 8: Test & Semester Review	
Week 36	Review & Semester Exam	

***For a list of the Pre-Calculus State Objectives, see pages 113-123 of the [2016 Alabama Course of Study \(click here\)](#).