

Precalculus Curriculum Guide 2018/2019 – Semester 1 of 2
 Glencoe/McGraw Hill Precalculus
 Chapters 1- 6 N. Jackson

Time Frame	Chapter Title	Suggested Problems	Chapter/Section	Standards
Week 1	SETS, Complex Numbers, Quadratic Functions, nth roots and real exponents, systems of linear equations and inequalities		0-1 to 0-5	
Week 2	Functions Analyzing Graphs of Functions		1-1 to 1-2	
Week 3	Continuity, end behavior, limits Extrema and Average Rates of Change		1-3 to 1-4	
Week 4	Parent functions/Transformations Function Operations and Composition		1-5 to 1-6	
Week 5	Inverse Relations and Functions		1-7 Test over Chapter 1	
Week 6	Power and Radical Functions Polynomial Functions		2-1 to 2-2	
Week 7	Remainder and Factor Theorems Zeros of Polynomial Functions		2-3 to 2-4	
Week 8	Rational Functions Nonlinear Inequalities		2-5 to 2-6 Test over Chapter 2	
Week 9	Exponential Functions Logarithmic Functions Properties of Logarithms		3-1 to 3-3	
Week 10	Exponential and Logarithmic Equations Modeling with Nonlinear Regression		3-4 and 3-5 Test over Chapter 3	
Week 11	Right Triangle Trigonometry Degrees and Radians Trig Functions on Unit Circle		4-1 to 4-3	
Week 12	Graphing Sine and Cosine Functions and other trig functions		4-4 to 4-5	
Week 13	Inverse Trig Functions Law of Sine and Cosine		4-6 to 4-7 Test over Chapter 4	
Week 14	Trigonometric Identities Verifying Trig Identities Solving Trig Equations		5-1 to 5-3	
Week 15	Sum and Difference Identities Multiple-Angle and Product-to-Sum Identities		5-4 and 5-5 Test Chapter 5	
Week 16	Matrix Operations Multivariable Linear Systems Matrix Multiplication, Inverses, Determinants Solving Linear Systems – Inverses and Cramer's Rule		0-6 6-1 to 6-3	
Week 17	Partial Fractions Linear Optimization		6-4 and 6-5 Test over Chapter 6	
Week 18	Final Exam over Chapters 1-6			

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 Chapters 7-10 and 12 N. Jackson

Week 1	Parabolas Ellipses and Circles Hyperbolas		7-1 to 7-3	
Week 2	Parametric Equations		7-5 Test over Chapter 7	
Week 3	Introduction to Vectors Vectors in Coordinate Plane		8-1 and 8-2	
Week 4	Dot Products and Vector Projections Vectors in 3D Space		8-3 to 8-4	
Week 5	Dot and Cross Products of Vectors in Space		8-5 Review and Test over Chapter 8	
Week 6	Polar Coordinates Graphs of Polar Equations		9-1 to 9-2	
Week 7	Polar and Rectangular Forms of Equations Polar Forms of Conic Sections		9-3 to 9-4	
Week 8	Complex Numbers and DeMoivre's Theorem		9-5 Review and Test over Chapter 9	
Week 9	Sequences, Series, and Sigma Notation Arithmetic Sequences and Series Geometric Sequences and Series		10-1 to 10-3	
Week 10	Mathematical Induction The Binomial Theorem		10-4 to 10-5	
Week 11	Functions as Infinite Series		10-6 Test over Chapter 10	
Week 12	Estimating Limits Graphically Evaluating Limits Algebraically		12-1 to 12-2	
Week 13	Tangent Lines and Velocity Derivatives		12-3 to 12-4	
Week 14	Area Under a Curve and Integration The Fundamental Theorem of Calculus		12-5 to 12-6	
Week 15	Review Chapter 12		Review and Test over Chapter 12	
Week 16	Catch Up and Review Semester 1			
Week 17	Review for Cumulative Final			
Week 18	Final Exam Cumulative Chapters 1-10 and 12			