2026-2027 Precalculus Year-At-A-Glance

Term 1	Term 2	Term 3	Term 4
Fundamental Skills for Success in Precalculus • Apply mathematics to a wide set of problems • Use mathematical ideas and reasoning Time: 2 weeks Lessons: 2.1, 2.2, 2.3, 4.1 **Functions and Their Graphs** • Determine and analyze key features for functions • Graph functions • Analyze the behavior at critical points Time: 2 weeks Lessons: 2.1, 2.4, 2.5, 5.1, 5.2 **Polynomial and Rational Functions** • Solve polynomial equations • Solve rational equations Time: 3 weeks Lessons: 4.1, 4.2	**Polynomial and Rational Functions (cont.)** • Graph polynomial functions • Graph rational functions • Analyze key features from graphs Time: 2 weeks Lessons: 4.1, 4.2, 4.4, 4.5, 4.6 **Exponential and Logarithmic Functions** • Solve log equations • Solve exp equations • Graph logs and exponentials Time: 3.5 weeks Lessons: 5.3, 5.4, 5.5, 5.6, 5.7, 5.8, 5.9 **Trigonometric Functions** • Apply the unit circle for solving equations • Conversions from radians to degrees • Use Law of Sin/Cos Time: 2.5 weeks Lessons: 6.1, 6.2, 6.3, 8.1, 8.2 **Semester Exam**	**Trigonometric Identities and Equations** • Use trig identities to simplify expressions • Solve trig equations • Use Law of Sin/Cos for applications Time: 3 weeks Lessons: 8.1, 8.2, 7.4, 6.2, 6.4, 6.5, 6.6 **Trigonometric Functions** • Graph all trig functions • Analyze trig transformations Time: 3 weeks Lessons: 6.4, 6.5, 6.6, 7.3 **Polar Coordinates and Parametric Equations** • Graph points in the polar coord system • Convert between rectangular to polar • Graph polar equations • Classify polar curves • Symmetry of polar graphs • Graph and convert parametric equations Time: 2.5 weeks Lessons: 9.1, 9.2	**Vectors** • Vector characteristics • Vector operations • Apply vector properties to applications Time: 2.5 weeks Lessons: 9.4, 9.5 **Conics** • Conics vocabulary • Ellipses – graph/write equations • Hyperbola – graph/write equations Time: 2.5 weeks Lessons: 10.1, 10.3, 10.4, 10.7 **Sequences** • Arithmetic • Geometric • Explicit & Recursive Time: 1 week Lessons: 12.1, 12.2, 12.3 **Semester Exam**

*Lessons referenced are from Precalculus textbook.
Timeframes may vary slightly based on student needs.