

M125 0.5 week	Chapter P P.1-P.9	Prerequisites (algebra review)	M115 0.25 week
5 weeks	Chapter 1	Functions and Graphs 1.1 Graphs and graphing utilities 1.2 Basics of functions and their graphs 1.3 More on functions and their graphs 1.4 Linear functions and slope 1.5 More on slope 1.6 Transformations of functions 1.7 Combinations of functions 1.8 Inverse functions 1.9 Distance and midpoint formulas; circles 1.10 Modeling with functions	3 weeks
4.5 weeks	Chapter 2	Polynomial and Rational Functions *2.1 Complex numbers* 2.2 Quadratic polynomials 2.3 Polynomial functions and their graphs *2.4 Dividing polynomials: remainder and factor theorems* *2.5 Zeros of polynomial functions* 2.6 Rational functions and their graphs 2.7 Polynomial and rational inequalities *2.8 Modeling using variation*	2.75 weeks
5 weeks	Chapter 3	Exponential and Logarithmic Functions 3.1 Exponential functions 3.2 Logarithmic functions 3.3 Properties of logarithms 3.4 Exponential and logarithmic equations 3.5 Exponential growth and decay: modeling data	3 weeks
7 weeks	Chapter 4	Trigonometric Functions 4.1 Angles and radian measure 4.2 Trigonometric functions: the unit circle 4.3 Right angle trigonometry 4.4 Trigonometric functions of any angle 4.5 Graphs of sine and cosine functions 4.6 Graphs of other trigonometric functions 4.7 Inverse trigonometric functions 4.8 Applications of trigonometric functions	3 weeks
5 weeks	Chapter 5	Analytic Trigonometry 5.1 Verifying trigonometric identities 5.2 Sum and difference formulas 5.3 Double-angle, power-reducing, and half-angle formulas *5.4 Product to sum and sum-to-product formulas* 5.5 Trigonometric equations	2 weeks
3 weeks	Chapter 6	Additional Topics in Trigonometry 6.1 The law of sines 6.2 The law of cosines *6.3 Polar coordinates* *6.4 Graphs of polar equations* *6.5 Complex numbers in polar form; De Moivre's theorem*	1 week