

Students enrolling in MATH 1210 should be familiar with:

- the concept of a function, domain, and range.
- the connections between graphic, algebraic, and verbal descriptions of functions.
- the graphs of basic polynomials (second and third order) and simple rational functions.
- important points on graphs such as x and y intercepts, maximum or minimum values, and any symmetry the function exhibits.
- identifying all real zeros and factors of polynomial functions, and where the function is positive or negative.
- solving absolute value, linear, polynomial, rational, and radical equalities and inequalities.
- operations on functions and composition of functions in particular.
- representing and interpreting real world situations using quadratic, rational, radical, trigonometric and polynomial expressions, equations, and functions.
- trigonometric functions defined in the context of the right triangles and on the unit circle.
- graphs of basic trigonometric functions and those with basic transformations. Identify amplitude, periods, phase shifts from graphic and algebraic representations of functions.
- solving trigonometric equations and using trigonometric identities
- solving for measurements in a triangle, using the Pythagorean Theorem and trigonometric functions.