

MATH180W : Pre-Calculus

Using graphical, numerical, and algebraic approaches, Pre-Calculus covers floor, power, linear, rational, circular, exponential, logarithmic, polynomial, and absolute-value functions. The course also explores the quadratic functions forming circles, ellipses, parabolas, and hyperbolas. The course highlights where calculus uses these elements and functions, and concludes by introducing students to limits, numerical derivatives, and numerical integrals. If time allows, students explore parametric equations, polar coordinates, sequences and series, the binomial theorem, and vectors in the two-dimensional plane.

Lecture Hours 4

Lab Hours 0 **Credits** 4