

College Algebra Redesign - KCC

Tentative Course Calendar: Math1814

*Subject to change as semester progresses.

Week	Topic
1	Solving linear inequalities and absolute value equations
2	Factoring polynomials; operations with complex numbers; simplifying radical expressions
3	Solving quadratic equations
4	Circles and their equations; functions and relations; graphs of linear functions
5	Functions: linear, quadratic, cubic, absolute value, rational, radical; domain and range
6	Operations with rational expressions; Functions: inputs and outputs, domain and range, intercepts, slopes
7	Parallel and perpendicular lines; scatter plots and line of best fit; translating graphs of functions
8	Translating and transforming graphs of functions; symmetry; piecewise-defined functions; even and odd functions
9	Difference quotients; increasing, decreasing and constant intervals; local maxima and minima; average rate of change; composition of functions; quadratic functions
10	Polynomial functions: zeros, end behavior, graphs, properties, degree
11	Solving polynomial inequalities; finding inverse functions; exponential functions: graphing, translating, domain and range, transforming
12	Exponential functions and their applications; exponential and logarithmic equations; properties of logarithms, expanding logarithmic expressions
13	Solving logarithmic and exponential equations, exponential models and rate of change
14	Solving systems of equations; Ellipses and their equations and graphs
15	Hyperbolas and their equations and graphs
16	Review