*Approved: November 2023 Effective: Fall 2024*

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| **MATERIAL TO BE COVERED** | **SECTIONS FROM TEXT** | **TIMELINE** |
| Math 130 Topics: Simplify polynomial, radical, and rational expressions including integer and rational exponents. Factoring polynomials.  Math 13 Topics: Additional time with simplifying and factoring | R3 – R8 | **Math 130:**  7 Hours  **Math 13:**  5 hours |
| Math 130 Topics: Solving linear, quadratic, absolute value and rational equations and inequalities (optional absolute value inequalities). Solving radical and quadratic-in-form equations. Applications of linear, quadratic and rational equations. Simplifying complex numbers.  Math 13 Topics: Critical Thinking. Additional time on equations and applications. | 1.1 – 1.8 | **Math 130:**  8 Hours  **Math 13:**  5 hours |
| Math 130 Topics: Graphs of equations (optional: circles), functions, linear functions, graphs of basic functions and piecewise-defined functions, graphing techniques, function operations including composition.  Math 13 Topics: Additional time on graphing techniques | 2.1, 2.3 – 2.8  (2.2 optional) | **Math 130:**  10 Hours  **Math 13:**  5 hours |
| Math 130 Topics: Quadratic functions and applications, synthetic division, real and complex zeros of polynomial functions, polynomial functions: graphs and applications; rational functions: graphs and applications; variation.  Math 13 Topics: Additional time on polynomial and rational functions and zeros. | 3.1 – 3.5, 3.7 | **Math 130:**  14 hours  **Math 13:**  5 hours |
| Math 130 Topics: Inverse functions, exponential functions, logarithmic functions, properties of logarithms, exponential and logarithmic equations and applications.  Math 13 Topics: Additional time on solving exponential and logarithmic equations and applications | 4.1 – 4.6 | **Math 130:**  10 Hours  **Math 130:**  5 hours |
| Math 130 Topics: Linear systems of equations: two and three variables and applications, Linear systems of inequalities  Math 13 Topics: Additional time on three variable systems and applications | 5.1 – 5.6 | **Math 130:**  3 Hours  **Math 13:**  5 hours |

**Submitted by:** Summers, Birca, Chavez, DeWilde, Edward, Hall, Lee, Loyd, Kim, Nguyen, Q., Sun, Rivas, Rivers, Wakefield