*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 |

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