



Course Number	Math 1220 College Algebra
Course Name	
Credit Value (Breakdown of theory and lab credits)	3 Theory
Catalog Course Description	The study of equations, functions and graphs, reviewing linear and quadratic functions, and concentrating on polynomial, rational, exponential and logarithmic functions. Emphasizes algebraic problem solving skills and graphical representation of functions. Prerequisite: MATH 1215. (3, 3T+0S)
Course Student Learning Outcomes/Objectives /Competencies of the Course	<p>Student Learning Outcomes:</p> <p>Students will build on their knowledge of polynomial, rational, absolute value, radical, exponential and logarithm functions in the following contexts:</p> <ol style="list-style-type: none"> 1. Use function notation; perform function arithmetic, including composition; find inverse functions. 2. Identify functions and their transformations given in algebraic, graphical, numerical, and verbal representations, and explain the connections between these representations. 3. Graph and interpret key feature of functions, e.g., intercepts, leading term, end behavior, asymptotes. 4. Solve equations algebraically to answer questions about graphs, and use graphs to estimate solutions to equations. 5. Solve contextual problems by identifying the appropriate type of function given the context and creating a formula based on the information given. 6. Communicate mathematical information using proper notation and verbal explanations.
College-Wide Student Learning Outcomes	<p>Math 1220 will expose students to the following NNMCC College Wide Goals:</p> <p><i>Critical thought: Students are required to analyze and synthesize information and draw reasoned conclusions.</i></p> <p><i>Quantitative reasoning: Calculate, represent, apply, analyze, and communicate both quantitative and qualitative information.</i></p>
Program Student Learning Outcomes measured	PSLO #1: Manipulate and solve polynomial, rational, logarithmic, exponential, and trigonometric equations.