MATH0085 - Elementary Algebra I

Credits:	2 (2/0/0)
Description:	This course provides both a foundation for further study of general and technical mathematics and preparation for applying mathematics in daily life and other college coursework. Topics include problem solving and critical thinking using properties of numbers and algebra. Through the study of mathematics, students will work on developing self-assessment and goal-setting skills, utilizing resources and gaining an understanding of the level of commitment necessary to succeed in an academic or real-world setting.
Prerequisites:	• Math 0055 Foundational Mathematics or appropriate placement test score.
Corequisites:	
Pre/Corequisites*:	
Competencies:	1. Perform the four mathematical operations with rational numbers and rational expressions. 2. Understand rules and usage of signed numbers involved in evaluating and simplifying algebraic expressions, including adding, subtracting and multiplying polynomials. 3. Evaluate, simplify and translate algebraic expressions. 4. Solve linear equations and inequalities in one variable. 5. Problem solve real-world and mathematical situations with linear equations. 6. Find the slope of a line and make qualitative statements about the rate of change. 7. Write the equation of a line in slope-intercept form. 8. Graph two-variable equations and inequalities using a table of values and the slope-intercept form of the line. 9. Identify linear functions numerically, symbolically and graphically. 10. Strive for clarity, precision and detail in representing problems and their solutions. 11. Gain proficiency in persisting to higher levels of problem solving and abstract thinking. 12. Develop a work ethic consistent with what is needed to succeed in a college mathematics course, including working at a pace appropriate for a college mathematics course.
MnTC goal areas:	None

**Can be taking as a Prerequisite or Corequisite.*