

Springfield Technical Community College
Academic Affairs

Course Number: MAT-062 Class/Lect. Hours: 1 Lab Hours: _____ Credits: 1 Dept.: Mathematics

OBJECTIVES/COMPETENCIES

Course Objectives	Competencies
1. Solving Linear equations and inequalities	<p>Upon completion of the unit the student will be able to:</p> <p>1a. Solve linear equations. 1b. Solve equations with parentheses. 1c. Solve applied problems. 1d. Solve literal equations and formulas. 1e. Solve linear inequalities.</p>
2. Graphing Linear equations in two variables	<p>2a. Locate the quadrant for a given point. 2b. Determine if a given point satisfies an equation. 2c. Find intercepts of an equation and graph 2d. Find the slop given the equation, points or the graph 2e. Given an equation plot its graph. 2f. Identify parallel and perpendicular lines</p>
3. Relations and Functions	<p>3a. Definition of a relation and a function 3b. Identifying relations and functions with charts and ordered pairs 3c. Identify relations and functions of a graph</p>
4. Exponents	<p>4a. Evaluate exponential expressions. 4b. Evaluate x^0 4c. Simplify expressions involving negative exponents. 4d. Multiply and divide like bases. 4e. Apply exponent laws to simplify an expression 4f. Collect like terms 4g. Add and subtract polynomials</p>
5. Scientific Notation	<p>5a. Express a number in scientific notation 5b. Convert from scientific notation to standard form 5c. Operations with scientific notation</p>