Springfield Technical Community College
Academic Affairs

Course Number: MAT 063   Class/Lect Hours: 1   Lab Hours: Credits: 1   Dept.: Mathematics

OBJECTIVES/COMPETENCIES

Course Objectives	Competencies
1. Quadratic expressions and equations	Upon completion of the unit the student will be able to: 1a. Factor out common factors. 1b. Factor trinomials of the form $x^2 + bx + c$ 1c. Factor trinomials of the form $ax^2 + bx + c$ 1d. Solve quadratic equations by factoring and applications 1e. Solve quadratic equation using the quadratic formula 1f. The graph of the quadratic equation
2. Rational expressions and equations	2a. Simplify rational expressions. 2b. Multiply and simplify rational expressions. 2c. Divide and simplify rational expressions. 2d. Adding, subtracting. 2e. Solving rational equations.
3. Radical expressions and equations	3a. Simplify square roots. 3b. Add and subtract radical expressions. 3c. Multiply and radical expressions; rationalize denominators 3d. Solve radical equations.
4. Functions	4a. Identify a function from a graph 4b. Function Notation 4c. Evaluating linear and quadratic functions 4d. Solving and evaluating literal functions