Academic Affairs 2/20

Springfield Technical Community College Academic Affairs

		Class/Lect.		Lab				
Course Number:	MAT-061	Hours:	1	Hours:	Credits:	1	Dept.:	Mathematics

OBJECTIVES/COMPETENCIES

Course Objectives	Competencies
1. Operations on Real Numbers	Upon completion of the unit the students will be able to: 1a. Perform operations on signed numbers 1b. Simplify expressions involving grouping symbols 1c. Solve problems involving order of operations. 1d. Simplify numeric expressions. 1e. Compute Square roots
2. Fractions	2a. Simplify fractions2b. Identify Equivalent Fractions2b. Add/Subtract/Multiply/Divide
3. Decimals and rounding	3a. Perform Operations with decimals3b. Rounding3c. Converting decimals and fractions
4. Percents	 4a. Defining percents 4b. Operations with percents 4c. Converting between decimals and percents 4c. Solving problems with percents
5. Algebraic Expressions and Equations	 5a. Evaluate expressions for signed numbers. 5b. Apply order of operations to evaluate an expression. 5c. Solve equations of the form x + a = b 5d. Solve equations of the form a x = b. 5e. Solve proportions of the form a/x=b/c 5f. Find area and perimeter 5g. Solve inequalities
6. Dimensional Analysis	6a. Metric conversions6b. English conversions6c. Change of units
7. Statistics	7a. Measure of center: mean, median, mode7b. Reading graphs and charts7c. Basic Probability Rules