SYLLABUS
PART I
EDISON STATE COMMUNITY COLLEGE
MTH 093D MATH LITERACY
4 CREDIT HOURS

COURSE DESCRIPTION
Basic math literacy course. Topics include: fractions, decimals, percentages, exponents, order of operations, probability, dimensional analysis, and linear equations and inequalities. Satisfactory math assessment score. NOTE: Credits earned in this course do not count toward degree requirements. Lab fee.

COURSE GOALS

The student will:

Bloom's Level		Gen Ed Outcomes
2	1. Add, subtract, multiply, and divide fractions and decimals.	1, 3
3	2. Express repeated multiplication with exponents.	1, 3
3	3. Calculate the mean, median, and mode of a dataset.	1, 3
3	4. Use the order of operations to evaluate non-algebraic expressions.	1, 3
2	5. Round whole numbers and decimals to a specified place value.	1, 3
3	6. Use square roots to solve application problems involving the Pythagorean Theorem.	1, 3
3	7. Use fractions and decimals to solve application problems.	1, 3
3	8. Calculate and analyze the perimeter, area, and/or volume of basic geometric shapes.	1, 3
2	9. Convert rates and ratios to fractions in lowest terms.	1, 3
3	10. Use ratios and proportions to solve application problems, including problems involving the lengths of sides of similar figures.	1, 3
2	11. Convert between fractions, decimals, and percentages.	1, 3
5	12. Integrate percentages to solve application problems, including problems involving taxes, discounts, and interest.	1, 3
3	13. Use unit analysis to convert lengths, rates, and temperatures within the U.S. and metric systems of measurement.	1, 3
3	14. Add, subtract, multiply and divide real numbers.	1, 3
3	15. Use the distributive property to simplify algebraic expressions.	1, 3
3	16. Solve linear equations and inequalities in one variable.	1, 3
4	17. Analyze linear equations and inequalities to solve application problems.	1, 3
1	18. Locate points in the Cartesian coordinate system.	1, 3
2	19. Graph and interpret linear equations and inequalities in the Cartesian coordinate plane.	1, 3
2	20. Interpret slope as a rate of change.	1, 3
5	21. Formulate equations of lines in slope-intercept form given (a) the slope and a point on the line, or (b) two points on the line.	1, 3

CORE VALUES

The Core Values are a set of principles that guide in creating educational programs and environments at Edison State. They include communication, ethics, critical thinking, human diversity, inquiry/respect for learning, and interpersonal skills/teamwork. The goals, objectives, and activities in this course will introduce/reinforce those Core Values whenever appropriate.

TOPIC OUTLINE

1. Order of Operations
2. Rounding Rules
3. Fractions, Decimals, and Percentages
4. Critical Comprehension
5. Real Numbers
6. Linear Equations including Slope
7. Linear Equations and Inequalities in One Variable
8. Linear Equations and Inequalities in Two Variables