

SYLLABUS
PART I
EDISON COMMUNITY COLLEGE
MTH 099D INTERMEDIATE ALGEBRA II
3 CREDIT HOURS

COURSE DESCRIPTION

Third in a sequence of three algebra courses. Topics include: rational expressions; radicals; solving quadratic equations; complex numbers; functions. Prerequisite: Satisfactory math assessment score and two years of high school algebra or a grade of C or better in MTH 098D. Co-requisite or prerequisite: GEN 101S. NOTE: Credits earned in this course do not count toward degree requirements. Lab fee.

COURSE GOALS

The student will:

Bloom's Level		Gen Ed Outcome
3	1. Reduce rational expressions to lowest terms.	1, 3
3	2. Add, subtract, multiply, and divide rational expressions	1, 3
3	3. Solve equations that contain rational expressions.	1, 3
3	4. Simplify radicals and radical expressions.	1, 3
3	5. Add, subtract, multiply, and divide radical expressions.	1, 3
3	6. Solve radical equations.	1, 3
3	7. Solve quadratic equations by completing the square and by applying the quadratic formula.	1, 3
3	8. Solve application problems involving quadratic equations.	1, 3
3	9. Add, subtract, multiply, and divide complex numbers.	1, 3
1	10. Identify the domain and range of a function or a relation.	1, 3
3	11. Determine whether a relation is a function.	1, 3
3	12. Use function notation to find the output value for a given input.	1, 3

CORE VALUES

The Core Values are a set of principles which guide in creating educational programs and environments at Edison. 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 these Core Values whenever appropriate.

TOPIC OUTLINE

1. Rational Expressions
2. Roots and Radicals
3. Quadratic Equations
4. Functions