Mathematics Bepartment - MA 103 College Algebra

Chaminade University of Honolulu

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Syllabus: MA 103 College Algebra

Objectives:

- 1. To give the student a firm foundation in the fundamentals of algebra.
- 2. To prepare the student for entry into MA 110 Precalculus

Emphases:

Skill in manipulating algebraic expressions (polynomials, rational expressions, radical expressions), in solving equations and inequalities; basic concepts and computational skills in exponential and logarithmic functions, and in probablility.

Text:

Algebra for College Students by Gustafson and Frisk. Brooks/Cole Publishing Company

Topics:

- 1. Graphs, equations of lines, basic CONCOPTS of functions: rectangular coordinate system, graphs, slopes, equations of lines.
- 2. Linear equations and inequalities: systems of equations; matrices, determinants; linear equalities in two variables, linear programming.
- 3. Polynomials: arithmetic of polynomials; synthetic division, remainder theorem; factoring.
- 4. Rational expressions: addiing, subtracting, solving equations.
- 5. Rational exponents, radicals.
- 6. Quadratic equations and inequalities.
- 7. Exponential and logarithmic functions.
- 8. Selected topics: Binomial theorem; sigma notation; beginning probablility.