INTERMEDIATE ALGEBRA INTENSIVE
21:640:104 (3+N3 CREDITS)

AND

INTERMEDIATE ALGEBRA
21:640:105 (3 CREDITS)

COURSE DESCRIPTION:
This course is intended to give students the necessary numerical and algebraic skills to allow for success in subsequent courses requiring a solid foundation in quantitative reasoning. The topics contained in this course include numerical systems such as the integers and the rational numbers (fractions), variable expressions, equations and applications, graphing simple equations, polynomials, and factoring.

This is an elementary mathematics course designed for students who require additional preparation before taking 21:640:106 (Math for Liberal Arts) or 21:640:107 (College Algebra for Humanities and Social Sciences) or 21:640:108 (College Algebra for Business) or 21:640:109 (College Algebra for Physical Sciences.)

FINAL EXAM POLICY:
NO Calculators: This course involves computation and the development of related skills. Calculators are not ever allowed. Problems can be done with pencil and paper.

Although students must pass the final exam with 70% or better in order to pass the course with a minimum C grade, passing the final exam (70% or better) does NOT guarantee that a student will pass the course. For students achieving 70% or better on their final exam, the course grade is determined by the percentage breakdown (e.g. for quizzes, exams, and so forth) indicated on the course syllabus.

PREREQUISITE:
Determined by the Mathematics Placement Examination.

TEXTBOOKS:

DEPARTMENT WEB SITE:  http://www.ncas.rutgers.edu/math

FREE TUTORING:  is available in the Rutgers Learning Center, Room 140 Bradley Hall (973-353-5608.)

THIS COURSE COVERS THE FOLLOWING CHAPTERS:
Chapter 1: Whole Numbers I
Chapter 2: Whole Numbers II
Chapter 3: Integers
Chapter 4: Solving equations with integer solutions
Chapter 5: Fractions
Chapter 6: Decimals
Chapter 7: Ratios, rates, proportions and percent
Chapter 8: Arithmetic revision
Chapter 9: Algebraic expressions
Chapter 10: Application problems (except Sections 10.13 and 10.14)
Chapter 11: Arithmetic operations on monomials and polynomials
Chapter 12: Factoring polynomials
Chapter 13: Solving quadratic equations
Chapter 16: Graphs of linear equations (except Sections 16.7 and 16.8)

Department of Mathematics & Computer Science
Smith Hall 216, 101 Warren Street, Newark, New Jersey 07102
Phone: (973) 353-1004 Fax: (973) 353-5270