DATE:
NAME: Gina Yanuzzi

Rowan College at BURLINGTON COUNTY

COURSE INFORMATION FORM

This form must be completed, using MS Word, for all new and modified courses offered for credit, including experimental courses. (Form expands to allow full details in each category.)

I. Course Prefix and number: MTH-012

II. Course Title: College Algebra Clinic

III. Lecture Hrs. 3 Clinical Hrs. Credit Hrs. 3
Studio Hrs. Lab Hrs. Recitation Hrs.

IV. Course Fee:

V. Prerequisite(s): MTH 075; placement based on assessment and academic advisement

VI. Co-Requisite(s): MTH 112 or College Algebra

VII. Division Dean Approval: _____ Date:

VIII. Is this eligible for Perkins Funding? Yes ☐ No ☐

IX. New Course: x ☐ Modified Course: ☐ Experimental Course: ☐

(if modified course explain changes and list old course designator and number)

X. Semester and Year Course will first be Offered (or, if a modified course, semester and year when revised course will first be offered): Fall 2017

XI. Relation of Course to Curriculum(s):
☐ Program requirement
☐ General Education requirement
☐ Elective
☐ Developmental course requirement

XII. General Education Designator (if course is intended to satisfy a general education requirement check appropriate designator):

☐ **GCOM** = Communications
☐ **GDIV**= Global and Cultural Awareness
☐ **GHIS** = History
☐ **GHUM** = Humanities
☐ **GMAT** = Mathematics
☐ **GSCL** = Science
☐ **GSOC** = Social Science
☐ **GTEC** = Technological Competency

XIII. Catalog Description:

This course is designed to provide students with the necessary skills to be successful in MTH 112 College Algebra. The curriculum will be geared towards the student's level of algebraic skill. Topics will be chosen from linear and quadratic equations and inequalities, absolute value equations and inequalities, rationales, radicals, complex numbers, graphs and transformation of functions.

XIV. Course Objectives (Learning Outcomes):

Upon completion of this course, students will be able to:

- Factor polynomials
- Solve linear, rational, absolute value, radical, and quadratic equations and inequalities
- Perform operations on radicals and complex numbers
- Perform operations on expressions involving rational exponents
- Perform operations on algebraic and rational expressions

- Graphs and transformations of 5 basic functions (Linear, Absolute Value, Squaring, Cubing, and Square Root)

XV. Textbook(s):

XVI. Other Course Materials to be supplied by Student:

XVII. Grading Policy (number and weight of papers, quizzes, examinations, and rubrics)

XVIII. Detailed Description of Project Final Examination (if applicable):

XIX. Schedule of topics to be covered in Course:

- Solving Equations & Inequalities
- Factoring
- Radicals, Rational Exponents & Complex Numbers
- Graphs & Transformations of Functions

XX. Schedule lab exercises (if applicable):

IAC Chair Approval Signature_____ Date: _____