MIDDLESEX COUNTY COLLEGE

Course Title: Algebra II Review **Course No.** MAT 090

Class Hours: 15 **Laboratory Hours:** 0 **Credit Hours:** 1

Department Head Approval: _____ **Date:** Spring 2006
Maria DeLucia, Ph.D.

Dean Approval: _____
Reginald Luke, Ph.D.

Prerequisite

Grade of "C" or better in MAT-013, or passing score on placement examination.

Textbook of Course

Author	Title	Publisher
Larson, Hostetler, Neptune	Intermediate Algebra Graphs and Functions	Houghton-Mifflin – 3rd Edition

Supplies

TI-83/84 Graphing Calculator Required

Catalog Course Description

This is an intensive one-week course in Intermediate Algebra (Algebra II). Topics include: A review of elementary algebra, the coordinate plane and functions, linear equations and inequalities, properties of lines, systems of linear equation, polynomials, rational expressions and quadratic equations. The use of a graphing calculator is essential.

Objectives of Course

This second of a two-course sequence in algebra is designed to polish skills developed in Algebra I and elevate them to a higher level of mathematical sophistication through the use of lecture, group work, and the calculator. The course provides the opportunity for the student to develop an understanding of algebra and apply it to realistic problem situations. The student will be prepared to use algebra as a meaningful tool in future college work. The student will develop analytical, oral and written skills as they pertain to algebra and mathematics in general.

Grade Requirement

A "C" is the minimum acceptance grade for completion of the remedial/development level and movement to a credit course.

Grade Policy

Tests	60%
Final Exam	40%

Grades should be assigned as follows:

92% - 100%	**A**	**77% - 78%**	**C+**
89% - 91%	**A-**	**70% - 76%**	**C**
87% - 88%	**B+**	**60% - 69%**	**D**
82% - 86%	**B**	**below 60%**	**F**
79% - 81%	**B-**		

Tests

It is suggested that 3 short tests be given, approximately 20 to 30 minutes long. The tests are counted as 20% each.

Homework

Homework should be assigned each class meeting.

Final Exam

The Final Exam is a departmental final. The final exam is worth 40% of the grade

Review packets for the final exam are available in Center II. You will be asked to submit an end of year summary.

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Suggested Mat 090 Day-to-Day Outline

DAY	SECTIONS	TOPICS	HOMEWORK
1	1.1,1.2,1.3,1.4, 1.5,1.6,2.1,2.2,2.3, 2.4,2.5	Algebraic expressions, polynomials, factoring, Solving linear and higher degree equations, graphing (calculator), Slope, parallel and perpendicular lines, Functions	p. 78: 1-32 p. 157: 1-13
2	**Test # 1 (1.1-6,2.1-5)** 3.1,3.2,3.3,3.4,3.5, 4.1,4.2	Linear equations, applications, Linear inequalities, Absolute value equations and inequalities, Systems of equations, show matrix key on calculator	p. 228: 1-20 p. 273: 1-8,11,13
3	**Test #2 (3.1-5, 4.1, 4.2)** 5.1,5.2, 5.3,5.4, 5.5,5.6, 6.1	Integer exponents, Sci. notation., rational exponents, radical functions, Radicals: simplify, mult., div Solve radical equations, complex numbers, Solve quadratic equations,	p. 360:1-20 p. 425:1-4
4	**Test # 3 (5.1-5.6, 6.1)** 6.2*, 6.3, 6.4, 7.1, 7.2 7.3,7.4, 7.5	Complete the square*, Quadratic formula, discriminant, Applications Rational expressions: simplify, mult., div., complex fractions, add, subtract, div. of polynomials, Solving rational equations	p. 425: 6-10, 16-18 p. 497: 1-12, 15,16
5	Review for Final **FINAL EXAM**		

6.2* Optional section