

ROWAN UNIVERSITY

Department of Mathematics

Syllabus

Math 01.123-2 College Algebra (20718) Spring, 2011

COURSE INFORMATION

1. **Professor:** Dr. Carol Rodano
2. **Meeting Time & Place:** THURS. Robinson 310 – 6:30 P.M. to 9:00 P.M.
3. **Phone:** 856-256-4844
4. **E-Mail Address:** rodano@rowan.edu
5. **Office Hours:** After class.

CATALOG DESCRIPTION

This course is designed to help students who are weak in algebra prepare for Statistics I or Calculus Techniques & Applications. The contents include: a brief review of intermediate algebra, the structure of the real number system, elementary analytic geometry, and algebraic, exponential and logarithmic functions (including their inverses and related functions). Graphs of functions are also studied. A graphing calculator is required. Proficiency in Intermediate algebra or its equivalent is required.

TEXT and OTHER SUPPLIES REQUIRED

Required Texts: Hungerford, *Contemporary College Algebra: A graphing Approach; Student Solutions Manual*: Brooks/Cole, 2nd Ed, 2005.

Calculator: Students may NOT use a cell phone as a calculator and cannot share a calculator. TI-83 or higher graphing calculator is required for every class.

EVALUATION

Graded Activity	Percentage
Quizzes & Misc. Assignments	25%
Exam 1 (Chapters 1 & 2)	20%
Exam 2 (Chapters 3 & 4)	25%
Final Exam (Cumulative – Chapters 1 through 5)	30%

Grading: A 93%, A- 90%, B+ 87%, B 83%, B- 80%, C+ 77%, C 73%,
C- 70%, D+ 67%, D 63%, D- 60%, F less than 60%

Homework Assignments: Homework will be assigned each week and expected to be completed before class. Questions and answers will be reviewed.

Absences: Any student absent during an in-class scheduled examination or quiz will receive a grade of zero for that exam/quiz unless a phone call was placed to the professor before the exam/quiz and an excused absence (medical emergency, illness, death in the family) is given.

Class Participation: Students are expected to participate in small-group and whole-class discussions as a means of promoting their own learning and contributing to the progress of the classroom community. Sharing, critiquing and discussing ideas are part of class participation. **Class participation requires that a student be in class, on time for class, and prepared for class which includes having the homework assignments completed.**

COURSE OBJECTIVES

A) Objectives:

At the end of this course, students will demonstrate the ability to:

- (i) perform different operations involving algebraic expressions including exponential expressions,
- (ii) graph linear and quadratic functions,
- (iii) solve equations and inequalities algebraically and graphically,
- (iv) graph polynomial, rational, algebraic, exponential and logarithmic functions,
- (v) solve exponential and logarithmic equations, and apply exponential and logarithmic models.

STUDENTS ACCOMMODATION POLICY

Your academic success is important. If you have a documented disability that may have an impact upon your work in this class, please contact me. Students must provide documentation of their disability to the Academic Success Center in order to receive official University services and accommodations. The Academic Success Center can be reached at 856-256-4234. The Center is located on the 3rd floor of Savitz Hall. The staff is available to answer questions regarding accommodations or assist you in your pursuit of accommodations.

TENTATIVE COURSE SCHEDULE AND ASSIGNMENTS

Class Day	Date	Topics	Homework	Important Dates
1	1/20/11	Ch. 0 – Algebra Review	Ch. 0 - pp. 54-56 (1-71 odd)	
2	1/27/11	Ch. 1 – Graphs, Lines & Technology	Ch. 1 - pp. 112-116 (1-61 odd)	
3	2/3/11	Ch. 2 – Equations and Inequalities	Ch. 2 - pp. 186-187 (1-35 odd)	Quiz
4	2/10/11	Ch. 2 – Equations and Inequalities	Ch. 2 - pp. 187-188 (37-73 odd)	Quiz
5	2/17/11	Ch. 2 – Equations and Inequalities & Review	Ch. 0,1 & 2 - Study Guide Handout Review for Exam #1	Study Guide Handout
6	2/24/11	Exam #1		Exam #1
7	3/3/11	Ch. 3 – Functions and Graphs	Ch. 3 - pp. 269-272 (1-41 odd)	
8	3/10/11	Ch. 3 – Functions and Graphs	Ch. 3 - pp. 272-274 (43-87 odd)	Quiz
	3/14-3/18/11		SPRING BREAK	
9	3/24/11	Ch. 4 – Polynomial and Rational Functions	Ch. 4 - pp. 361-363 (1-33 odd)	Quiz
10	3/31/11	Ch. 4 - Polynomial and Rational Functions	Ch. 4 - pp. 363-365 (35-73 odd)	Quiz
11	4/7/11	Ch. 4 - Polynomial and Rational Functions & Review	Ch. 3 & 4 - Study Guide Handout Review for Exam #2	Study Guide Handout
12	4/14/11	Exam #2		Exam #2
13	4/21/11	Ch. 5 – Exponential and Logarithmic Functions	Ch. 5 - pp. 452-455 (1-33 odd)	
14	4/28/11	Ch. 5 - Exponential and Logarithmic Functions & Review	Ch. 5 - pp. 454-455 (35-77 odd) Ch. 0-5 - Study Guide Handout Review for Final Exam	Study Guide Handout
15	5/5/11	Final Exam		Final Exam