SYLLABUS---MATH 1050
COLLEGE ALGEBRA
CRN# 30054, 30055
SUMMER SEMESTER, 2009
M,Tu,W,Th 7:00, 9:00

Instructor: Lynn R. Hunt   Office: NIB 152   652-7762
Credits: 4 Hours   hunt_L@dixie.edu
Text: **College Algebra**   Hours: 12:30-1:00 M-Th
             Tenth Edition
             Lial, Hornsby, Schneider

1. OBJECTIVES: All classes in mathematics at Dixie College support the general education goal of the college, and will:
- Require students to perform mathematical processes including fractions, percentages, decimals, proportions/ratios, algebraic equations and/or calculus techniques.
- Provide students with application problems that use a variety of methods including arithmetical, algebraic and geometric methods.
- Challenge students to make inferences from mathematical models that include formulas, graphs and tables.
- Provide students with real-life applications that use a variety of mathematical functions.

Upon successful completion of this course, the students will demonstrate through testing the ability to:
1. Apply functional notation.
2. Determine symmetries that exist in the graph of an equation.
3. Graph polynomial functions and find their intercepts, maxima, and minima.
4. Analyze the key components of the graph of polynomial and rational functions.
5. Compute the composition and inverses of functions.
6. Graph exponential and logarithmic functions.
7. Apply properties of logarithms and exponents in simplifying expressions and solving equations.
8. Solve systems of linear equations using substitution, elimination, matrices, and Cramer's rule.
9. Solve non-linear systems of equations and inequalities.
10. Find terms and sums of terms of arithmetic and geometric sequences and series.
11. Compute the terms of a binomial expansion.

(Prerequisite: C or better in Math 1010 or ACT score of 23 or higher)

If you are a student with a medical, psychological, or learning disability and need accommodations, contact the Disability Resource Center (652-7516) in the Student Services Center. The Disability Resource Center will determine your and the appropriate accommodations related to your disability.

2. CALCULATORS: A graphing calculator is required. The TI-83 Plus/84 will be used in class and is highly recommended. Instruction can also be given on the TI-85, TI-86, TI-89 and TI-92.

3. EXAMINATIONS: Each student is expected to take the examinations as scheduled in the syllabus. Make-up exams will be given at the discretion of the instructor, and only if prior arrangements have been made. A final comprehensive exam will be given at the end of the term. The lowest test score can be replaced with the percent earned on the final exam.

4. ATTENDANCE: Attendance is essential and roll will be taken. Tardiness will be frowned upon and may invoke the ire of the instructor.

5.ASSIGNMENTS.   Homework assignments are to be done each day, but will only be collected on the day of the test. Put all homework together, fold in half lengthwise, and at the top include: (for example)

John Doe
Math 1050, 7:00
Ch. 1
ALL - ?

6. HELP: I am available for help during posted office hours, and other times by appointment. There are also tutors available in the Browning Resource Center.

7. GRADES: Grades will be based on the ratio of the number of points earned by the student to the total number of points possible on all assignments and examinations. Grades will be sent to your Rebelmail address after each test. Grades will be assigned as follows:

A	100 – 94%	**B**	86 – 83%	**C**	74 – 70%	**D**	59 – 55%
A-	93 – 90%	**B-**	82 – 80%	**C-**	69 – 65%	**D-**	54 – 50%
B+	89 – 87%	**C+**	79 – 75%	**D+**	64 – 60%	**F**	49 – 0%

JUN	1	R.4	1-73 EOO, 79-103 EOO	Th	2	4.6	1-4 ALL, 5-41 EOO,20,
Tu	2	1.1	1-67 EOO	X17			
		1.2	1-11 ODD, 15-39 EOO,17	M	6	REVIEW	
W	3	1.3	17-73 EOO, 83,87	Tu	7	TEST CHS. 3.5 – 4	
		1.4	13-65 EOO, 31				
Th	4	1.5	1-41 EOO, X 25				
		1.6	1-49 EOO,27,93,97,X29,69,77				
M	8	1.7	1-45 EOO, 59,69,73,95				
		1.8	1-8 ALL, 9-53 EOO, 81,85,89	W	8	5.1	9-53 EOO,69,73,77
Tu	9	REVIEW				5.5	1-33 EOO,47,51,55, X5
W	10	TEST CHAPTER 1		Th	9	6.1	1-41 EOO, 31,39,51,53
Th	11	2.1	13-37 EOO, 57				X 13,17
		2.2	3-27 EOO, 41, 42	M	13	6.2	1-25 EOO,43,48
M	15	2.3	1-13 EOO, 17-22 ALL, 43-83 EOO			6.3	TBA
		2.4	1-6 ALL, 9-21 EOO, 25-28 ALL, 31-55 EOO, 59-65 ALL	Tu	14	7.1	7-43 EOO, 53-65 EOO, 25,77, 79
						7.2	1-61 EOO,23, 69,72,73 X29
Tu	16	2.5	1-4 ALL, 5-57 EOO, X 29	W	15	7.3	5-41 EOO,57,61,64,65
		2.6	1-10 ALL, 11-39 EOO, 49,50, X 31			7.4	1-45 EOO, 42,47,49.
				Th	16	REVIEW	
W	17	2.7	1,3,5,9,15,21,37,41,45, 53,55,67,68,69	M	20	TEST CHS 5,6,- 7.4	
		2.8	1-85 EOO, X 21, 25	Tu	21	7.6	1-61 E00,35,39,55
Th	18	3.1	1,3,5-8 ALL,12, 13-25 ODD, 27-30 ALL, 47-59 EOO, X 55d, 37,38	W	22	FINAL REVIEW	
		3.2	1-33 EOO,15,41,43,45, X 17	TH	23	FINAL EXAM	
M	22	3.3	5,7,9,17,19,21,27,29,41,63				
		3.4	1-9, 19-29 ODD 33-41 EOO				
Tu	23	REVIEW					
W	24	TEST CHS 2 – 3.4					
Th	25	3.5	9-17,19,21,61,65,67,68,91				
		3.6	1,3, 7-10 ALL, 11-39 EOO, 25				
M	29	4.1	1-17 ODD, 19-26 ALL, 35-79 EOO, 77, X 43, 47				
		4.2	1-25 EOO, 49-77 EOO, 71,75				
Tu	30	4.3	1-29 ODD,59-87 ODD,91				
		4.4	1-81 EOO, 3,7,47,X57				
JULY	1	4.5	1-77 EOO,12,23,39,60 71,75				