Syllabus: Math 1050 – S'09   Instructor: Barbara Blythin
College Algebra   Office: NIB 148
MTRF, NIB 144   Telephone: 652-7765
Sec. 11: 11:00am (20388)   E-mail: blythin@dixie.edu
Text: College Algebra, 10th ed.   Office hours: M: 1:00-3:00pm
   Lial, Hornsby, Schneider   W: 9:00am-12:00noon,
Prerequisite: Math 1010 (C or better)   and 1:00-2:00pm
   or ACT-Math/CPT score of 23+   and by appointment

DIXIE STATE COLLEGE COURSE OBJECTIVES:
All mathematics courses at Dixie State College will:
1.   Require students to perform mathematical processes, including fractions, percentages, decimals, proportions/ratios, algebraic equations, and/or calculus techniques.
2.   Provide students with application problems that use a variety of methods, including arithmetic, algebraic, and geometric.
3.   Challenge students to make inferences from mathematical models that include formulas, graphs, and/or tables.
4.   Provide students with real-life applications that use a variety of mathematical functions.

Upon successful completion of Math 1050, a student will demonstrate through testing the ability to:
1.   Apply function notation.
2.   Determine symmetries that exist in the graph of an equation.
3.   Graph polynomial functions and find their intercepts and extrema.
4.   Analyze the key components of the graphs of polynomial and rational functions.
5.   Compute the composition and inverses of functions.
6.   Graph exponential and logarithmic functions.
7.   Apply properties of exponents and logarithms in expressions and equations.
8.   Solve systems of linear equations, including using determinants.
9.   Solve nonlinear systems of equations and inequalities.
10.   Find terms and sums of arithmetic and geometric sequences and series.
11.   Compute the terms of a binomial expansion.

INSTRUCTOR EXPECTATIONS:
1.   Attendance is of prime importance in any college class but especially in a mathematics class. Therefore, students should make every effort to show up.
2.   Homework (including the chapter test) will be collected, graded, and returned on each test day. Late homework will receive half-credit; too-late homework will receive no credit.
3.   A graphing calculator is required.
4.   Cheating will not be tolerated and may result in an F.
5.   Without prior permission or a documented excuse, make-up test grades will be reduced by 10%.
6.   Occasional pop quizzes may be given; points will be added to the homework points.

GRADING:
6 tests @ 100 points each   Grades by percentages:
6 HWs @ 15 points each   A: 93-100; A-: 90-92; B+: 87-89; B: 83-86;
Final exam @ 200 points   B-: 80-82; C+: 77-79; C: 70-76; C-: 65-69
For a total possible 890 points   D: 60-64; F: <60

NOTE: All information sent from the college or the instructor will be sent to your dmail account. You MUST check that email account at least once a week. You are responsible for knowing what is contained within those messages.

NOTE: If you are a student with a documented physical or mental impairment that will substantially limit a major life activity, please contact the Disability Resource Center on the main campus. The Center Coordinator and staff will assist you in analyzing your eligibility for services. If you are deemed eligible, reasonable accommodations that are appropriate to your disability will be assigned. If you have any questions concerning this process, please contact the Center at 652-7516. We are located in the Student Services Center, room 201, of the Edith Whitehead Building.

TENTATIVE HOMEWORK SCHEDULE – S'09
Note: eoo means Every-Other Odd-numbered homework problem, i.e., 1, 5, 9, 13, 17, . . .

Date Assigned	Section	Assignment
M 1/5	R.3	eoo 13-25, 33-93
T 1/6	R.4	13; eoo 21-73, 81-103
R 1/8	R.5	eoo 1-69
F 1/9	R.6	eoo 25-33, 53-69, 81-101
M 1/12	R.7	eoo 37-89; odds 99-103
T 1/13	Review	Chap. R Test, pp. 81-82, odds 1-19
R 1/15	**TEST 1**	
F 1/16	1.1	eoo 9-25, 41-69
T 1/20	1.2	eoo 1-45
R 1/22	1.3	eoo 17-97
F 1/23	1.4	eoo 13-65, 73-85
M 1/26	1.5	eoo 5-21, 29-41, 49, 57
T 1/27	1.6	eoo 9-85, 93-97
R 1/29	1.7	eoo 13-49, 61-89; 95
F 1/30	1.8	eoo 9-65, 73-89
M 2/2	Review	Chap. 1 Test, pp. 177-178, odds 1-29
T 2/3	**TEST 2**	
R 2/5	2.1	eoo 13-37, 45-57 (45-53, graph only)
F 2/6	2.2	eoo 9-29, 37-45
M 2/9	2.3	eoo 17-85
T 2/10	2.4	eoo 13-77
R 2/12	2.5	eoo 5-65
F 2/13	2.6	eoo 13-37, 49-53
T 2/17	2.7	eoo 25-73
R 2/19	2.8	eoo 1-69, 77-93
F 2/20	Review	Chap. 2 Test, pp. 297-299, odds 1-23
M 2/23	**TEST 3**	

(continued)

T	2/24	3.1	eoo 13-65
R	2/26	6.1	eoo 5-45, 53
F	2/27	6.2	eoo 5-37, 49 **(last day to drop/audit)**
M	3/2	3.5	eoo 17-45
T	3/3	3.6	eoo 13-45
R	3/5	Review	Chap. 3 Test, pp. 398-400, odds 1, 19-21
			Chap. 6 Test, pp. 647-648, odds 1-9, 17
F	**3/6**	**TEST 4**	
M	3/9	4.1	eoo 41-73, 89
T	3/10	4.2	eoo 13-33, 49-77, 85
R	3/12	4.3	eoo 13-37, 57-85
F	3/13	4.4	eoo 29-85
M	3/23	4.5	eoo 5-53, 61-89
T	3/24	4.6	eoo 1-45
R	3/26	Review	Chap. 4 Test, pp. 490-491, odds 1-21
F	**3/27**	**TEST 5**	**(last day for complete withdrawal)**
M	3/30	5.1	eoo 9-41, 49-69, 77
T	3/31	5.2	eoo 17-37, 53, 61
R	4/2	5.3	eoo 1-9, 17-29, 37, 49-53, 61-77
F	4/3	5.5	eoo 9-37, 45-57
M	4/6	5.6	eoo 29-81
T	4/7	7.1	eoo 1-9, 25-45, 53-77
R	4/9	7.2	eoo 1-41, 49-61, 73
F	4/10	7.3	eoo 5-29, 37-45, eoo 57-77
M	4/13	Review	Chap. 5 Test, pp. 602-604, odds 1-13, 16-22
			Chap. 7 Test, pp. 728-729, odds 1-11
T	**4/14**	**TEST 6**	
R	4/16	7.4	eoo 1-49
F	4/17	7.6	eoo 21-61
M	4/20	7.7	eoo 1-33
			Chap. 7 Test, pp. 728-729, odds 13-17, 21-25
T	4/21	Review for Final Exam	
R	4/23	Review for Final Exam	
M	**4/27**	**FINAL EXAM, 10am-12noon**	