

MATH 1050
COLLEGE ALGEBRA/PRECALCULUS
CRN #20391 / 22251
SPRING SEMESTER, 2009
Tuesday / Thursday 5:00 p.m.

Instructor:	Robert Reimer	Phone: 467-1153
Credits:	4 Hours	E-mail: reimer@dixie.edu
Text:	<u>College Algebra</u> Tenth Edition Lial, Hornsby, Schneider	Office Hours: 5:00 – 5:15; 7:00 – 7:30 Class Time: 5:15 – 7:00 T/Th

PREREQUISITES: C or better in Math 1010 or ACT/CPT placement. It is expected that students will have general recall of the information taught in Math 1010.

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.

. EXAMINATIONS: Each student is expected to take the examinations as scheduled in the syllabus in the **testing center** (ID and Scantron required). Make sure to check the testing center hours. Exams are worth 100 points. 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 worth 150 points. The lowest test

score will be dropped. The VASA exam is required of all 1050 students. The dates are marked on the calendar – students will receive 25 points (out of 25) for taking the VASA.

4. ATTENDANCE: Attendance is essential and roll will be taken. Attendance will account for 50 points of the final grade. Students who miss no more than 2 class periods will receive a 10 point bonus added to their test scores. Tardiness will be frowned upon and may invoke the ire of the instructor.

5. ASSIGNMENTS: Homework assignments are to be done each class period, but will only be passed off every other class period (Last names A-L on Tuesday and M-Z on Thursday). Homework will be scored at 5 points per class period (approximately 150 points in the semester).

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. Students are expected to login to the Blackboard Vista for “learning community” help as well as class resources and communicate with the instructor via e-mail.

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 e-mail address after each test (approximately 500 pts for exams / 150 for homework / 25 for VASA / 150 for final / 50 for attendance). 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%

3-34 ACADEMIC DISCIPLINE

34.1 Cheating: Academic dishonesty in any form will not be tolerated at Dixie State College, including but not limited to plagiarism on written assignments, submitting other person's work as one's own, and cheating on exams or quizzes. Teachers at Dixie State College may discipline students proven guilty of academic dishonesty by:

34.1.1 Giving a failing grade on the specific assignment where dishonesty occurred,

34.1.2 Failing the student in the entire course,

34.1.3 Immediately dismissing and removing the student from the course, and/or

34.1.4 Referring the student to Student Affairs, a committee which may reprimand, place on probation, suspend, and/or expel the student.

Week 1	T	1/6/2009	R.3	11-27 EOO, 33-89 EOO	R.4	1-73 EOO, 79-103 EOO
	Th	1/8/2009	R.5	1-69 EOO	R.6	1-97 EOO
2	T	1/13/2009	R.7	1-85 EOO, 99,101,103		
	Th	1/15/2009	Blackboard/E-Mail Assignment (Review for Exam 1 (Chapter R))			EXAM 1 in TC (1/15 to 1/19)
3	T	1/20/2009	1.1	1-85 EOO, 3,7	1.2	1-11 ODD, 15-39 EOO, 17,25
	Th	1/22/2009	1.3	1-77 EOO, 3,7,83,87	1.4	1-77 EOO, 3,7,31
4	T	1/27/2009	1.5	1-45 EOO, 3,57	1.6	1-77 EOO,27,93,97
	Th	1/29/2009	1.7	1-53 EOO, 55-59 ALL, 61-77 EOO, 95	1.8	1-8 ALL, 9-65 EOO, 81, 85, 89
5	T	2/3/2009	Review for Exam 2 (Chapter 1)			EXAM 2 in TC (2/3 to 2/9)
	Th	2/5/2009	2.1	13-57 EOO, X41	2.2	3-27 EOO, 37-49 EOO
6	T	2/10/2009	2.3	1-13 EOO, 17-22 ALL, 23-83 EOO	2.4	1-8 ALL, 9-21 EOO, 25-28 ALL, 31-55 EOO, 59-65 ALL
	Th	2/12/2009	2.5	1-4 ALL, 5-57 EOO, 59	2.6	1-10 ALL, 11-47 EOO, 45, 49,50
7	T	2/17/2009	2.7	1-69 EOO, 3,15,31,67,68,70,71,72	2.8	1-85 EOO
	Th	2/19/2009	Review for Exam 3 (Chapter 2)			EXAM 3 in TC (2/19 to 2/23)
8	T	2/24/2009	3.1	1,3,5-8 ALL, 12,13-22 ODD, 37-48 ALL,47-59 EOO,28,30,67	3.2	1-33 EOO,15,41,43,45
	Th	2/26/2009	3.3	5,7,9,17,19,21,27,49	6.1	1-41 EOO, 31,39,51,53, X13, X17
9	T	3/3/2009	6.2	1-25 EOO,43,48	3.6	1,3, 7-10 ALL,11-39 EOO, 25
	Th	3/5/2009	Review for Exam 4 (Chapter 3/6.1 & 2)			EXAM 4 in TC (3/5 to 3/9)
10	T	3/10/2009	4.1	1-17 ODD, 19-26 ALL, 35-79 EOO, 77	4.2	1-25 EOO, 49-77 EOO,71,75,83
	Th	3/12/2009	4.3	1-29 ODD,59-87 ODD,91	4.4	1-81 EOO, 3,7,47,X57
	T	3/17/2009	NO SCHOOL			
	Th	3/19/2009	NO SCHOOL			
11	T	3/24/2009	4.5	1-77 EOO,12,23,39,60,71,75	4.6	1-4 ALL, 5-41 EOO,20, X17
	Th	3/26/2009	Review for Exam 5 (Chapter 4)			EXAM 5 in TC (3/26 to 3/30)
12	T	3/31/2009	5.1	9-53 EOO,69,73,77,87	5.3	1-45 EOO, 61,63,65,75
	Th	4/2/2009	5.5	1-37 EOO,47,51,55		
13	T	4/7/2009	5.8	1-17 EOO, 29-45 EOO,71,73,75,79,81	7.1	7-43 EOO, 53-65 EOO,25,77
	Th	4/9/2009	7.2	1-61 EOO,23, 69,72,73, X29	7.3	5-41 EOO,57,61,64,65
14	T	4/14/2009	Review for Exam 6 (Chapters 5/7)			EXAM 6 in TC (4/15 to 4/20)
	Th	4/16/2009	7.4	1-45 EOO, 42,47,49	VASA in TC (4/13 to 4/29)	
15	T	4/21/2009	7.6	1-61 EOO,35,39,55	7.7	1-33 EOO, 35
	Th	4/23/2009	Review for Final Exam			
Final	T	4/28/2009	Final Exam in Class 4:30 - 7:00 p.m.			OTHER IMORTANT DATES WILL BE GIVEN IN CLASS

