

DIXIE STATE COLLEGE - - Spring 2009  
MATHEMATICS DEPARTMENT

**Course Number:** MATH 1050**Section Number:** 4**Room Number:** NIB 136**Instructor:** Ross Decker**Office Phone Number:** 652-7763**Text:** College Algebra (10<sup>th</sup> Edition)**Prerequisites:** C or better in **MATH 1010** or ACT Math score of 23 or higher.**Course Title:** College Algebra/Pre-Calculus**Meeting Time:** M,Tu,Th, F 9:00 – 9:50 AM

Jan 5 to Apr 29

**Office Room Number:** NIB 139**Office Hours:** 10:00-10:50 Daily (or by appointment)**Authors:** Lial, Hornsby, Schneider

Exam dates and points possible are as follows:

Exam R	January 13-15	100 points
Exam 1	Jan 30 – Feb 3	100 points
Exam 2	February 20-24	100 points
Exam 3	March 6-10	100 points
Exam 4	March 27-31	100 points
Exam 5	April 13-15	100 points
Final Exam	April 30 (7:30-9:30 AM)	200 points
Homework	(5 points each)	<u>220 points</u>
<b>TOTAL POINTS:</b>		<b>1120 points</b>

**ATTENDANCE:** Any student who misses the first two days of class will be dropped from the class.**DISHONESTY:** If it is determined that you cheated, you will receive a zero for that exam.

If cheating occurs a second time, you will receive an F for the course.

**DISABILITIES:** If you are a student with a medical, psychological, or learning disability, and would like accommodations or think you might have a disability, contact the Disability Resource Center (652-7516) in the Student Services Center, Room 201. The Disability Resource Center will determine eligibility based on your professional documentation and determine the appropriate accommodations related to your disability.**GRADES:** Your semester grade will be based on the following scale: **A**(92-100%), **A-**(89-92%), **B+**(86-89%), **B**(82-86%), **B-**(79-82%), **C+**(76-79%), **C**(72-76%), **C-**(69-72%), **D+**(66-69%), **D**(62-66%), **D-**(59-62%), **F**(0-59%)**GENERAL REMARKS:** It is the responsibility of each student to make time each day to read the text, attempt all homework problems, study for exams, and get extra help. Your work should be neat and easily read. Problems will be graded more for the work shown than for the final answer. Assignments should be considered a minimum and many students should work additional problems to reach mastery. Course schedules, assignments, and exam dates are subject to change as circumstances dictate.

### COURSE OBJECTIVES

All mathematics classes 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 arithmetical, algebraic, and geometric methods.
3. Challenge students to make inferences from mathematical models that include formulas, graphs, and 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 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. Perform matrix arithmetic, including determinants.
10. Solve non-linear systems of equations and inequalities.
11. Find terms and sums of terms of arithmetic and geometric sequences and series.
12. Compute the terms of a binomial expansion.

MON	TUE	THUR	FRI	
1/5 R.3	1/6 R.4	1/8 R.5	1/9 R.6	R.3 11-27eoo,33-89eoo R.4 1-73eoo,79-103eoo
1/12 R.7	1/13 Review Ch R	1/15 1.1	1/16 1.2	R.5 1-69eoo R.6 1-97eoo
1/19 MLK Day	1/20 1.3	1/22 1.4	1/23 1.5	R.7 1-85 eoo,99,101,103 1.1 1-9o,13-65eoo
1/26 1.6	1/27 1.7	1/29 1.8	1/30 Review Ch 1	1.2 1-11o,15-39eoo,17,25 1.3 1-7o,9-77eoo,83,87
2/2 Exam 1	2/3 2.1	2/5 2.2	2/6 2.3	1.4 1-9o,13-77eoo,31 1.5 1-5o,9-45eoo,57
2/9 2.4	2/10 2.5	2/12 2.6	2/13 2.7	1.6 1-77eoo,27,93,97 1.7 1-53eoo,55-59,61-77eoo,95
2/16 Presidents Day	2/17 2.8	2/19 Review Ch 2	2/20 Exam 2	1.8 1-8,9-65eoo,81-89eoo 2.1 13-57eoo
2/23 3.1	2/24 3.2	2/26 3.3	2/27 6.1	2.2 3-27eoo,37-49eoo 2.3 1-13eoo,17-22,23-83eoo
3/2 6.2	3/3 3.5	3/5 3.6	3/6 Review Ch 3	2.4 1-6,9-21eoo,25-28,31-55eoo,59-65 2.5 1-4,5-57eoo,59
3/9 Exam 3	3/10 4.1	3/12 4.2	3/13 4.3	2.6 1-10,11-47eoo,45,49,50 2.7 1-65eoo,3,15,3167-72
3/16 S P R I N G	3/17	3/19 B R E A K	3/20	2.8 1-85eoo 3.1 1,3,5-8,12,13-25o,28,30,37-46,47-59eoo,67
3/23 4.4	3/24 4.5	3/26 4.6	3/27 Review Ch 4	3.2 1-33eoo,15,41-45o 3.3 5-9o,17-21o,27,49
3/30 Exam 4	3/31 5.1	4/2 5.3	4/3 5.5	6.1 1-41eoo,31,39,51,53 6.2 1-25eoo,43,48
4/6 5.6	4/7 7.1	4/9 7.2	4/10 7.3	3.5 9-17,19,21 3.6 1,3,7-10,11-39eoo,25
4/13 Review Ch 5	4/14 Exam 5	4/16 7.4	4/17 7.5	4.1 1-17o,19-26,35-79eoo,77 4.2 1-25eoo,49-77eoo,71,75,83
4/20 7.6	4/21 7.7	4/23 Final Review	4/24 Final Review	4.3 1-29o,59-87o,91 4.4 1-9o,13-81eoo,47
	4/29 Final Exam (10:00-12:00)			4.5 1-69eoo,71-75o,77,12,23,39,60 4.6 1-4,5-41eoo,20 5.1 9-53eoo,69,73,77,87
5.3 1-45eoo,61,63,65,75		7.1 7-43eoo,53-65eoo,25,77		7.4 1-45eoo,42,47,49
5.5 1-37eoo,47,51,55		7.2 1-61eoo,23,69,72,73		7.6 1-61eoo,35,39,55
5.6 1-17eoo,29-45eoo,71,73,75,79,81		7.3 5-41eoo,57,61,64,65		7.7 1-33eoo,35

Testing Center Hours

Monday  
1 PM to 10 PM

Tuesday, Wednesday, Thursday, Friday  
9 AM to 10 PM

Saturday  
2 PM to 10 PM

Sunday  
4 PM to 10 PM

## Important Dates for Spring Semester 2009

Jan 5	Classes Begin
Jan 7	Last Day to Add Without Signature
Jan 19	Martin Luther King Day
Jan 20	\$50 Late Registration/Payment Fee
Jan 27	Last Day for Refund
Jan 27	Last Day to drop without receiving a W grade
Jan 27	Pell Grant Census
Jan 28	Students dropped for non-payment
Jan 30	Last Day to Add Classes
Feb 16	Presidents Day
Feb 23	Mid-Term Grades Due
Feb 27	Last Day to Drop/Audit Classes
Mar 16-20	Spring Break
Mar 27	Last Day for Complete Withdrawal
Apr 23	Classwork Ends
Apr 24-30	Final Exams
May 1	Commencement