

# MATH 1050

## COLLEGE ALGEBRA/PRE-CALCULUS

**INSTRUCTOR: SEEGMILLER**

**TEXTBOOK: COLLEGE ALGEBRA 10<sup>th</sup> Edition (LIAL, HORNSBY, SCHNEIDER)**

**MATERIALS NEEDED:** Graphing calculator is required

**MATHEMATICS AT DIXIE STATE COLLEGE:** All classes in Mathematics at Dixie State support the general education goal of the college. Within the limitations imposed by the nature of mathematics (i.e. the dependency on prior learning and the need for content fluency), each class 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 Math 1050,** a student will demonstrate through testing the ability to:

- Apply functional notation.
- Determine symmetries that exist in the graph of the equation.
- Graph polynomial functions and find their intercepts, maxima and minima.
- Analyze the key components of the graph of polynomial and rational functions.
- Compute the composition and inverses of functions.
- Graph exponential and logarithmic functions.
- Apply properties of logarithms and exponents in simplifying expressions and solving equations.
- Solve systems of linear equations using substitution, elimination, matrices and Cramer's rule.
- Solve non-linear systems of equations and inequalities.
- Find terms and sums of terms of arithmetic and geometric sequences and series.
- Compute the terms of a binomial expansion.

**CLASS ATTENDANCE:** In order to be successful in mathematics, you must choose to attend class on a regular basis. Statistics have shown that grades improve with better attendance. Make-up exams as a general rule will **NOT** be given. The teacher may allow them in **RARE** circumstances.

**CLASS PARTICIPATION:** Be willing to be involved in the class as an active participant. Ask questions, contribute toward solutions and be interested in the class activities. In order to be successful, you must be involved as a participant, not on the sidelines as a spectator.

**MAKING A FRIEND IN CLASS:** Attempt to make a friend in your class. You may find that studying together helps you learn more, and more easily.

**GETTING HELP:** Getting the right help can be important to being successful in math. Even when you have gone to class regularly, taken careful notes, read your text carefully, diligently done your homework, and made every effort to learn, you may still find you are having difficulty. If this is the case, seek help. Use the math labs, computer software, a tutoring service, or make an appointment with the instructor.

**HOMEWORK ASSIGNMENTS:** Math is a skill that is learned and mastered by doing it yourself with lots and lots of practice. Set aside time each day for doing homework assignments. Do not attempt to do a whole chapter's assignments at one sitting. That is a disaster! Usually **two hours outside class** for every hour in class is required for college courses.

**GRADING:** During the semester there will be SIX 100 point tests given. Homework for each chapter will be due on the day of that chapter's test, and will count 20 points for each chapter. Homework will be graded on the level of completion. The final exam **will be comprehensive** and will be worth 175 points. **All** tests and homework will count on your grade. Your lowest test score can be replaced by the score received on the final exam. Make-up exams will be **rarely** given.

**CODE OF CONDUCT:** Honesty is required and cheating in any form will not be tolerated. (The Dixie State College policy on academic dishonesty is explained on the school web site.)

**GRADING SCALE:**

A	94-100%	B	83-86%	C	70-74%	D	55-59%
A-	90-93%	B-	80-82%	C-	65-69%	D-	51-54%
B+	87-89%	C+	75-79%	D+	60-64%	F	0-50%

**DISABILITY STATEMENT**

If you are a student with a medical, psychological or learning disability or think you might have a disability and would like accommodations, contact the Disability Resource Center (652-7516) in the Student Services Center. The Disability Resource Center will determine eligibility of the student requesting special service and determine the appropriate accommodations related to their disability.

# CLASS SCHEDULE

This schedule is tentative. Instructor may make changes at any time.

<u>DATE</u>	<u>SEC.</u>	<u>ASSIGNMENT</u>			
<b>JAN</b> 9	R.4	1-73 EOO	13	2.6	1-10 ALL, 11-47 EOO, 45,49,50
10	R.4	79-103 EOO			
11	R.5	1,5,17,21,31,39,51, 55,57,59	14	2.7	1-69 EOO, 3,15,31, 67,68,70,71,72
12	R.6	1-69 EOO	15	2.8	1-85 EOO
16	NO SCHOOL		16	Chapter 2 Review	
17	1.1	1-65 EOO, 3, 7		<b>CHAPTER 2 TEST</b>	
18	1.2	1-11 ODD, 15-39 EOO, 17, 25	20	NO SCHOOL	
19	1.3	1-77 EOO, 3,7,83,87	21	3.1	1,3, 5-8 ALL, 12,13-22 ODD, 37-46 ALL, 47-59 EOO, 28, 30, 67
23	1.4	1-77 EOO, 3,7,31	22	3.2	1-33 EOO, 15,41,43,45
24	1.5	1-45 EOO, 3,57	23	3.3	5,7,9,17,19,21,27,49
25	1.6	1-77 EOO, 27,93,97	27	3.4	1-9,15,19-29 ODD, 33-41 EOO
26	NO CLASS		28	3.5	9-17, 19,21,61,65,67,68,89,91
30	1.7	1-53 EOO, 55-59 ALL, 61-77 EOO, 95	29	3.6	1,3,7-10 ALL, 11-39 EOO, 25
31	1.8	1-8 ALL, 9-65 EOO, 81,85,89	<b>MAR 1</b>	Chapter 3 Review	
<b>FEB</b> 1	Chapter 1 Review			<b>CHAPTER 3 TEST</b>	
	<b>CHAPTER 1 TEST</b>		5	4.1	1-17 ODD, 19-26 ALL, 35-79 EOO, 77
2	2.1	13-57 EOO, X41	6	4.2	1-25 EOO, 49-77 EOO, 71,75,83
6	2.2	3-27 EOO, 37-49 EOO	7	4.3	1-29 ODD, 59-87 ODD, 91
7	2.3	1-13 EOO, 17-22 ALL, 23-83 EOO	8	4.4	1-81 EOO, X57, 3,7,47
8	2.4	1-6 ALL, 9-21 EOO, 25-28 ALL, 31-55 EOO, 59-65 ALL	12-16	NO SCHOOL	
9	2.5	1-4 ALL, 5-57 EOO. 59	19	4.5	1-77 EOO, 12,23,39,60,71,75
			20	4.6	1-4 ALL, 5-41 EOO, X17, 20

21 Chapter 4 Review

**CHAPTER 4 TEST**

22 NO CLASS

26 5.1 9-53 EOO, 69,73,77

27 5.3 1-45 EOO, 61,63,65,75

28 5.5 1-37 EOO, 47,51,55

29 5.6 1-17 EOO, 29-45 EOO,  
71,73,75,79,81

**APR 2** 6.1 1-41 EOO, 31,39,51,53,  
X13, X17

3 6.2 1-25 EOO, 15,43,48,X33

4 6.3 1-4, 5,9,13,31,35

5 Chapter 5 & 6 Review

**CHAPTER 5 & 6 TEST**

9 7.1 7-43 EOO, 53-65 EOO, 25,77

10 7.2 1-61 EOO, X29,23,69,72,73

11 7.3 5-41 EOO, 57,61,64,65

12 7.4 1-45 EOO, 42,47,49

16 7.6 1-61 EOO, 3,5,39,55

17 7.7 1-33 EOO, 35

18 Chapter 7 Review

**CHAPTER 7 TEST**

19 NO CLASS

23-24 NO CLASS

25 Final Test Review

26 Final Test Review

## Final Test Schedule

**10 AM CLASS**

**Mon., Apr. 30<sup>th</sup>, 9:30—11:30**

**11 AM CLASS**

**Wed., May 2nd, 10—12 Noon**

