

SYLLABUS---MATH 1050
COLLEGE ALGEBRA/PRECALCULUS CRN # 40110
FALL SEMESTER, 2010 M,W 5:15

Instructor:	Paul Kreyling	Office:	NIB 134
Credits:	4 Hours		Kreyling@dixie.edu
Text:	<u>College Algebra</u> Tenth Edition	Hours:	7 – 7:30 M, W
	Lial, Hornsby, Schneider		

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.

CALCULATORS: A graphing calculator is required. The TI-83 Plus/84 will be used in class and is highly recommended.

EXAMINATIONS: Each student is expected to take the examinations as scheduled in the syllabus. 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.

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.

HOMEWORK ASSIGNMENTS: Keep in mind that math is a skill that can only be learned and mastered by doing it yourself with lots and lots of practice. **There is no other way!** Set aside some time each day for doing homework assignments. Do not attempt to do a whole chapter's assignments at one sitting. **A minimum of two hours** spent studying outside of class for each hour in class is usually required for college courses. Homework assignments are to be done each day, but will only be collected the class after the test is given. Put all homework together and at the top include: (for example)

John Doe
Math 1050, 1:00
Ch. 1
ALL – (# not done)

Study Groups: Attempt to make a friend in your class. You may find you enjoy sitting together and drawing support and encouragement from one another. Study with someone else or in groups when possible!! You will find that studying with a friend or in groups is helpful.

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 and the NIB.

SEMESTER SCHEDULE: <http://new.dixie.edu/reg/?page=fall2010>

GRADING: During the quarter, six 100-point tests will be given. These will contain multiple choice questions. Also on the day after the test, all homework for that chapter(s) will be due. The homework is graded on completion and is worth 20 points each chapter. The final exam will be **comprehensive** and worth approximately 200 points. **All** tests will count toward your grade. The lowest test score can be replaced by the percent on the final exam. Make-up exams as a general rule will not be given, the teacher may allow them in **rare** cases.

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%

<u>Date</u>	<u>Lecture</u>	<u>Homework Assignments</u>
<u>Week 1</u>		
M 8/23	R.4	1-73 EOO, 79-103 EOO First Day of Class
W 8/25	1.1	1-65 EOO, 3,7 Last day to add without signature
	1.2	1-11 ODD, 15-39 EOO, 17,25
<u>Week 2</u>		
M 8/30	1.3	1-77 EOO, 3,7,83,87 Drop fee begins (\$10 per class)
	1.4	1-77 EOO, 3,7,31
W 9/1	1.5	1-45 EOO, 3,57
	1.6	1-77 EOO,27,93,97
<u>Week 3</u>		
M 9/6		LABOR DAY NO CLASS
W 9/8	1.7	1-53 EOO, 55-59 ALL, 61-77 EOO, 95
	1.8	1-8 ALL, 9-65 EOO,81,85,89
<u>Week 4</u>		
M 9/13	Review	
	TEST 1	CHAPTER 1 TEST
W 9/15	2.1	13-57 EOO(X41)
	2.2	3-27 EOO, 37-49 EOO
<u>Week 5</u>		
M 9/20	2.3	1-13 EOO, 17-22 ALL, 23-83 EOO
	2.4	1-6 ALL, 9-21 EOO, 25-28 ALL, 31-55 EOO, 59-65 ALL
W 9/22	2.5	1-4 ALL, 5-57 EOO, 59
	2.6	1-10 ALL, 11-47 EOO, 45, 49,50
<u>Week 6</u>		
M 9/27	2.7	1-69 EOO, 3,15,31,67, 68,70,71,72
	2.8	1-85 EOO
W 9/29	Review	
	TEST 2	CHAPTER 2 TEST
<u>Week 7</u>		
M 10/4	3.1	1,3,5-8 ALL,12,13-22 ODD, 37-46 ALL,47-59 EOO,28,30,67
	3.2	1-33 EOO,15,41,43,45
W 10/6	3.3	5,7,9,17,19,21,27,49
	3.4	1-9,15,19-29 ODD,33-41 EOO
<u>Week 8</u>		
M 10/11	3.5	9-17,19,21,61,65,67,68,89,91
	3.6	1,3,7-10ALL, 11-39EOO,25
W 10/13	Review	
	TEST 3	CHAPTER 3 TEST

Date		Lecture	Homework Assignments
Week 9			
M	10/18	4.1	1-17 ODD, 19-26 ALL, 35-79 EOO, 77
		4.2	1-25EOO, 49-77EOO,71,75,83
W	10/20	4.3	1-29 ODD,59-87 ODD,91
		4.4	1-81 EOO(X57), 3,7,47
Week 10			
M	10/25	4.5	1-77 EOO,12,23,39,60,71,75
		4.6	1-4 ALL, 5-41 EOO(X17),20
W	10/27	Review	
		TEST 4 CHAPTER 4 TEST	
Week 11			
M	11/1	5.1	9-53 EOO,69,73,77
		5.3	1-45 EOO, 61,63,65,75
W	11/3	5.5	1-37 EOO,47,51,55
		5.6	1-17 EOO,29-45 EOO,71,73,75,79,81
Week 12			
M	11/8	6.1	1-41 EOO,31,39,51,53(X13,17)
		6.2	1-25 EOO,15,43,48,X33
W	11/10	6.3	1-4,5,9,13,31,35
		Review	
Week 13			
M	11/15	Review	
		TEST 5 CHAPTERS 5 & 6 TEST	
W	11/17	7.1	7-43 EOO,53-65 EOO,25,77
		7.2	1-61 EOO(X29),23,69,72,73
Week 14			
M	11/22	7.3	5-41 EOO,57,61,64,65
		7.4	1-45 EOO,42,47,49
W	11/24		THANKSGIVING BREAK NO CLASS
Week 15			
M	11/29	7.6	1-61 EOO,3,5,39,55
		7.7	1-33 EOO,35
W	12/1	Review	
		TEST 6 CHAPTER 7 TEST	
Week 16			
M	12/6	Review	Review for Final
W	12/8	Review	Review for Final
M	12/13		FINAL TEST Monday 12/13 5 – 7:00PM