

SYLLABUS---MATH 1050
COLLEGE ALGEBRA/PRECALCULUS CRN # 24377
Spring SEMESTER, 2011 M,W 5:15

Instructor:	Larry Esplin	Office:	NIB 134
Credits:	4 Hours		lesplin@dixie.edu
Text:	<u>College Algebra</u> Tenth Edition	Hours:	5:15-7:00 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 in the testing center 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 unit review 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 by appointment. There are also tutors available in the Browning Resource Center and the NIB.

GRADING: During the quarter, five 100-point tests will be given. Also, on the class after the unit review, 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 200 points. **All** tests will count toward your grade. The lowest test score can be replaced by the percent on the final exam.

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%

Any changes or corrections to the syllabus or homework assignments will be announced in class.

<u>Date</u>	<u>Lecture</u>	<u>Homework Assignments</u>
<u>Week 1</u>		
M	1/10	R.4-5 R4: 1-15 EOO, 19-21,25-45 EOO, 51-63 R5: 11-29 EOO, 41-53 EOO
W	1/12	1.1 11,13,19,21,29,31,35,39,43,47,49,53,59,61,65
	1.2	1-19 ODD, 23,25,29,31,35,39
<u>Week 2</u>		
M	1/17	NO SCHOOL
W	1/19	1.3 1-77 EOO, 83,87
	1.4	1-29 EOO,31,33,37,45,49,53,65,67,73,75
<u>Week 3</u>		
M	1/24	1.5 5-21 EOO, 23,29,31,33,43
	1.6	1-25EOO,27,29,35,39,43,47,57,61,67,93,97
W	1/26	1.7 1-41 EOO, 43,45,55-59 ALL,63,69,73,79,95
	1.8	1-8 ALL, 9,13,15,27,29,33,43,45,81,85,89
<u>Week 4</u>		
M	1/31	Review CHAPTER REVIEW HANDOUT
	TEST 1	CHAPTER 1 TEST TESTING CENTER 1/31-2/2 CLOSSES 5 PM
W	2/2	2.1 11,15,19,21,25,27,31,33,37,43,49,51
	2.2	3-27 EOO, 37,39
<u>Week 5</u>		
M	2/7	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	2/9	2.5 1-4 ALL, 5-45 EOO, 47,49
	2.6	1-10 ALL, 11-39 EOO
<u>Week 6</u>		
M	2/14	2.7 1,3,15,19,23,27,31-43 ODDS,53,55,61,65,67-72 ALL
	2.8	1-9 ODD,23,27,33,37,41,47,49,57,61,65,69
W	2/16	Review CHAPTER REVIEW HANDOUT
	TEST 2	CHAPTER 2 TEST 2/16-2/18
<u>Week 7</u>		
M	2/21	NO SCHOOL
W	2/23	3.1 1,3,5-8 ALL,12,13-21, ODD, 28,30,37-46 ALL,47-59 EOO
	3.2	1-17 EOO,27,31,35,41,43,45
<u>Week 8</u>		
M	2/28	3.3 5,7,9,17,19,21,27,49
	3.6	1,3,7-10ALL, 11-25 ODD,31,39
W	3/2	4.1 1-17 ODD, 19-26 ALL, 35,38,40,41,43,45,51,55,59,63,65,71,73,77,79
	4.2	1-25EOO, 49,51,53,57,67,73,75,83

<u>Date</u>	<u>Lecture</u>	<u>Homework Assignments</u>
<u>Week 9</u>		
M 3/7	4.3	1-29 ODD,59-87 ODD
	4.4	1-53 EOO(X57), 61,65,67,77
W 3/9	4.5	5,9,12,15,19,23,29,35,39,41,45,49,60,65,71,75,77
	4.6	5,9,13,19,20,21,29,33,39
<u>Week 10</u>		
M 3/14		SPRING BREAK
W 3/16		SPRING BREAK
<u>Week 11</u>		
M 3/21	Review	CHAPTER REVIEW HANDOUT
		CHAPTER 3-4 TEST TESTING CENTER 3/21-3/23 CLOSSES 5 PM
W 3/23	5.1	1-37 EOO,47,51,55,77
	5.3	1-21EOO, 23,35,41,61,63,65,75
<u>Week 12</u>		
M 3/28	5.5	1,9-37 EOO,47,51,55
	5.6	1-17 EOO,29-45 EOO,71,73,75,79,81
W 3/30	6.1	1,5,9,21,25,31,33,39,41,51,53
	6.2	1,5,9,13,15,17,21,43,48
<u>Week 13</u>		
M 4/4	Review	CHAPTER REVIEW HANDOUT
		CHAPTER 5 - 6 TEST TESTING CENTER 4/4-4/6 CLOSSES 5 PM
W 4/6	7.1	7-43 EOO,53-65 EOO
	7.2	1,5,9,13,17,21,23,25,33-61EOO,72,73
<u>Week 14</u>		
M 4/11	7.3	5-41 EOO,57,61,64,65
W 4/13	7.4	1-33 EOO,41,42,47
<u>Week 15</u>		
M 4/18	7.6	1-57 EOO PLUS 39,65
W 4/20	Review	CHAPTER REVIEW HANDOUT
		CHAPTER 7 TEST TESTING CENTER 4/20-4/22
<u>Week 16</u>		
M 4/25	Review	Review for Final
W 4/27	Review	Review for Final
M 5/2		FINAL TEST Classroom 135 5 PM