

SYLLABUS---MATH 1050
COLLEGE ALGEBRA/PRECALCULUS CRN # 45116
Fall SEMESTER, 2011 M,W 5:15-6:55 NIB 205

Instructor:	Larry Esplin	Office: NIB 104
Credits:	4 Hours	lesplin@dixie.edu
Text:	<u>College Algebra</u> Tenth Edition Lial, Hornsby, Schneider	phone: 435-652-7649

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.

CLASS ATTENDANCE: In order to be successful in mathematics, **you must attend class** on a regular basis. Attendance is essential and roll will be taken. Studies have shown that grades improve with better attendance. If you know that you have conflicts that will prevent you from attending class, it would likely be in your best interest to take it at another time.

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. Homework assignments will be collected at the beginning of the class following the completion of each exam unit. **Start each homework chapter section with a new sheet of paper and show all work done in solving the problems.** Put all homework together and at the top of each chapter section include: (for example)

John Doe
Math 1050
Ch. 3.1
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: Grade will be based on percentage of points earned on exams and homework assignments. Each unit exam is worth 100 points. Homework from that unit is worth 20 points. The final exam is worth 200 points.

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%

LINK TO SEMESTER CALENDAR, POLICIES, & RESOURCES:

<http://new.dixie.edu/reg/?page=fall2011#finals>

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

Date		Lecture	Homework Assignments
<u>Week 1</u>			
M	8/22	R 1.1	R1 ex3, R2 ex9, R3 ex4, R4 ex3, R4 ex6, R5 ex3, R6 ex3, R7 ex2 11,13,19,21,29,31,35,39,43,47,49,53,59,61,65
W	8/24	1.2	1-19 ODD, 23,25,29,31,35,39
<u>Week 2</u>			
M	8/29	1.3 1.4	1-77 EOO, 83,87 1-29 EOO,31,33,37,45,49,53,65,67,73,75
W	8/31	1.5 1.6	5-21 EOO, 23,29,31,33,43 1-25EOO,27,29,31,33,35,39,43,47,57,61,67,93,97
<u>Week 3</u>			
M	9/5		HOLIDAY
W	9/7	1.7	1-41 EOO, 43,45,55-59 ALL,63,69,73,79,95
<u>Week 4</u>			
M	9/12	1.8 & Review	1-8 ALL, 9,13,15,27,29,33,43,45,81,85,89 CHAPTER 1 TEST TESTING CENTER 9/12-9/15
W	9/14	2.1 2.2	11,15,19,21,25,27,31,33,37,43,49,51 3-27 EOO, 42
<u>Week 5</u>			
M	9/19	2.3	1-13 EOO, 11,12,17-22 ALL, 23-83 EOO
W	9/21	2.4	1-6 ALL, 9-21 EOO, 25-28 ALL, 31-55 EOO, 59-66 ALL
<u>Week 6</u>			
M	9/26	2.5 2.6	1-4 ALL, 5-45 EOO, 47,49,57,58 1-10 ALL, 11-39 EOO,49,50
W	9/28	2.7	1,3,15,19,23,27,31-43 ODDS,53,55,61,65,67-72 ALL
<u>Week 7</u>			
M	10/3	2.8 & Review	1-9 ODD,23,27,33,37,41,47,49,57,61,65,69 CHAPTER 2 TEST 10/3-10-6
W	10/5	3.1	1,3,5-8 ALL,12,13, 15,17,19,23,28,30,37-47 ALL, 50,51,53
<u>Week 8</u>			
M	10/10	3.2 3.3	1-17 EOO,27,31,35,41,43,45 5,7,9,17,19,21,27,49
W	10/12	3.6	1,3,7-10ALL, 11-25 ODD,31,39

Date		Lecture	Homework Assignments
<u>Week 9</u>			
M	10/17	4.1	1-17 ODD, 19-26 ALL, 35,38,40,41,43,45,51,55,59,63,65,67,71,73,77,79
W	10/19	4.2	1-25EOO, 49,51,53,57,67,73,75,83
<u>Week 10</u>			
M	10/24	4.3 4.4	1-29 ODD,59-87 ODD 11,13,15,17,61,63,65,67,69,77
W	10/26	4.5	5,9,12,15,19,23,29,35,39,41,45,49, 71,75,77
<u>Week 11</u>			
M	10/31	4.6 & Review	5-13 ODDS, 29,30,31 CHAPTER 3-4 TEST TESTING CENTER 10/31-11/3
W	11/2	5.1	1-37 EOO,47,51,55,69,71,77
<u>Week 12</u>			
M	11/7	5.3	1,5,9,17,21,23,35,61,63,65,73,75
W	11/9	5.5 5.6	1,9-37 EOO,47,51,55 1-17 EOO,29-45 EOO,71,73,75,79,81
<u>Week 13</u>			
M	11/14	6.1	1,2,5,9,21,25,31,33,39,41,51,53
W	11/16	6.2	1,5,9,13,15,17,21,43,48
<u>Week 14</u>			
M	11/21	7.1 7.2	7-43 EOO,53-65 EOO 1,5,9,13,17,21,23,25,33-61EOO,72,73
W	11/23		HOLIDAY
<u>Week 15</u>			
M	11/28	7.3 7.4	5-41 EOO,57,61,64,65 1-33 EOO,PLUS 41,42,47
W	11/30	7.6	1-57 EOO PLUS 39
<u>Week 16</u>			
M	12/5	Review Ch 5-7	CHAPTER 5-7 TEST TESTING CENTER 12/5-12/8
W	12/7		Review for Final
<u>Week 17</u>			
M	12/12		FINAL TEST Classroom 205 5 PM

