

**SYLLABUS---MATH 1050**  
**COLLEGE ALGEBRA/PRECALCULUS**  
**CRN# 44602 & 45303**  
**Fall SEMESTER, 2011**  
**M,Tu,W,Th 1:00**

Instructor: Samuel W. Schmutz  
Credits: 4 Hours  
Text: College Algebra  
Tenth Edition  
Lial, Hornsby, Schneider

Office: NIB 134 652-7991  
schmutz@dixie.edu  
Hours: 12 -1pm M-Th  
2 - 2:30pm M-Th  
4:30-5:00pm T & Th

**1. 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)

Students with medical, psychological, learning or other disabilities desiring reasonable academic adjustment, accommodations, or auxiliary aids to be successful in this class will need to contact the DISABILITY RESOURCE CENTER Coordinator ( Baako Wahabu) for eligibility determination. Proper documentation of impairment is required in order to receive services or accommodations. DRC is located at the ground floor of the Financial Aid Office. Visit or call 652-7516 to schedule appointment to discuss the process. DRC Coordinator determines eligibility for and authorizes the provision of services.

**2. CALCULATORS:** A graphing calculator such as the TI-83 Plus/84 will be used in class and is highly recommended. Instruction can also be given on the TI-85, TI-86, TI-89 and TI-92.

**3. EXAMINATIONS:** Each student is expected to take the examinations as scheduled in the syllabus at the Testing Center. Make-up exams will be given at the discretion of the instructor, and only if prior arrangements have been made. A final comprehensive exam will be given at the end of the term in the classroom on the designated date and time. The lowest Chapter test score can be replaced with the percent earned on the final exam.

**4. ATTENDANCE:** Attendance and practice are essential to learning. It is highly recommended that students come to class every day as mathematical course work builds upon concepts learned in prior lessons. Missing lessons or omitting to do homework for a section will impair students learning of subsequent material and may cause a great amount of frustration to the student. Tardiness will be frowned upon and may invoke the ire of the instructor.

**5. ASSIGNMENTS.** Homework assignments are to be done each day, but will only be collected on the day of the chapter review or for the Tuesday/Thursday class, the next class day following the last chapter assignment. Put all homework together, fold in half lengthwise, and at the top include: (for example)

John Doe  
Math 1050, 1:00  
Ch. 1  
ALL - ?

**6. 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.

**7. SEMESTER SCHEDULE:** <http://new.dixie.edu/reg/?page=fall2011>

**8. GRADES:** Grades will be based on the ratio of the number of points earned by the student to the total number of points possible on all assignments and examinations. Grades will be sent to your D-mail address after each test or posted on the classroom doorway according to student ID number. Grades will be assigned as follows:

<b>A</b>	100 – 94%	<b>B</b>	86 – 83%	<b>C</b>	74 – 70%	<b>D</b>	59 – 55%
<b>A-</b>	93 – 90%	<b>B-</b>	82 – 80%	<b>C-</b>	69 – 65%	<b>D-</b>	54 – 50%
<b>B+</b>	89 – 87%	<b>C+</b>	79 – 75%	<b>D+</b>	64 – 60%	<b>F</b>	49 – 0%

## CLASS SCHEDULE

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

Date	4 day/wk - 1hr/day Class (1050)		2 day/wk – 2hr/day Class (1050)	
	SEC	ASSIGNMENT	SEC	ASSIGNMENT
8/22	R.3	1-103 EOO,		
8/23	R.4	1-71 EOO, 79-103 EOO	R.3&4	1-103 EOO 1-71 EOO, 79-103 EOO
8/24	R.5&6	1-69 EOO 1-69 EOO, 73-107 EOO		
8/25	R.7	1-91 EOO	R.5,6 &7	1-69 EOO 1-69 EOO, 73-107 EOO 1-91 EOO
8/29	1.1	1-65 EOO, 3, 7		
8/30Tue	1.2	1-11 ODD, 15-39 EOO, 17, 25	1.1&2	1-65 EOO, 3, 7 1-11 ODD, 15-39 EOO, 17, 25
8/31	1.3	1-77 EOO, 3,7,83,87		1-77 EOO, 3,7,83,87
9/1Th	1.4	1-77 EOO, 27, 93, 97	1.3& 1.4	1-77 EOO, 27, 93, 97 1-45 EOO, 3, 57
9/5		Labor Day Holiday		Labor Day Holiday
9/6Tue	1.5	1-45 EOO, 3, 57	1.5&1.6	1-45 EOO, 3, 57 1-77 EOO, 27, 93, 97
9/7	1.6	1-77 EOO, 27, 93, 97		
9/8Th	1.7	1-53 EOO, 55-59 ALL, 61-67 EOO, 95	1.7& 1.8	1-53 EOO, 55-59 ALL, 61-67 EOO, 95 1-8 ALL, 9-65 EOO, 81, 85, 89
9/12	1.8	1-8 ALL, 9-65 EOO, 81, 85, 89		
9/13Tue		Chapter 1 Review	2.1	13-57 EOO, X41 Chapter 1 Review
9/14	2.1	13-57 EOO, X41		
9/15Th	2.2	3-27 EOO, 37-49 EOO	2.2	3-27 EOO, 37-49 EOO Review Ch 1 Test
9/19		Review Ch 1 Test		
9/20Tue	2.3	1-13 EOO, 17-22 ALL, 23-83 EOO	2.3& 2.4	1-13 EOO, 17-22 ALL, 23-83 EOO 1-6 ALL, 9-21 EOO, 25-28 ALL, 31-55 EOO, 59-65 ALL
9/21	2.4	1-6 ALL, 9-21 EOO, 25-28 ALL, 31-55 EOO, 59-65 ALL		
9/22Th	2.5	1-4 ALL, 5-57 EOO, 59	2.5& 2.6	1-4 ALL, 5-57 EOO, 59 1-10 ALL, 11-47 EOO, 45,49,50
9/26	2.6	1-10 ALL, 11-47 EOO, 45,49,50		
9/27Tue	2.7	1-69 EOO, 3, 15, 31, 67, 68,	2.7&	1-69 EOO, 3, 15, 31, 67, 68,

		70, 71, 72	2.8	70, 71, 72 1-85 EOO
9/28	2.8	1-85 EOO		
9/29 <sup>th</sup>		Chapter 2 Review	3.1	Chapter 2 Review, 1,3,5-8 ALL, 12, 13-22 ODD, 37-46 ALL, 47-59 EOO, 28, 30, 67
10/3	3.1	1,3,5-8 ALL, 12, 13-22 ODD, 37-46 ALL, 47-59 EOO, 28, 30, 67		
10/4Tue	3.2	1-22 EOO, 15,41, 43,45		Chapter 2 Test Review 1-22 EOO, 15,41, 43,45
10/5		Chapter 2 Test Review		
10/6 <sup>th</sup>	3.3	5,7,9,17,19,21,27,49	3.3& 3.4	5,7,9,17,19,21,27,49 1-9, 15, 19-29 ODD, 33-41 EOO
10/10	3.4	1-9, 15, 19-29 ODD, 33-41 EOO		
10/11Tue	3.5	9-17,19,21,61,65,67,68,89,91	3.5& 3.6	9-17,19,21,61,65,67,68,89,91 1,3,7-10 ALL, 11-39 EOO, 25 Chapter 3 Review
10/12		Chapter 3 Review		
10/13-14		Mid Term Break		Mid Term Break
10/17	3.6	1,3,7-10 ALL, 11-39 EOO, 25		
10/18Tue	4.1	1-17 ODD, 19-26 ALL, 35-79 EOO, 77	4.1	Chapter 3 Test Review 1-17 ODD, 19-26 ALL, 35-79 EOO, 77
10/19		Chapter 3 Test Review		
10/20 <sup>th</sup>	4.2	1-25 EOO,49- 77EOO,71,75,83	4.2& 4.3	1-25 EOO,49-77EOO,71,75,83 1-29 ODD, 59-87 ODD, 91
10/24	4.3	1-29 ODD, 59-87 ODD, 91		
10/25Tue		Review Ch 3 Test	4.4	Review Ch 3 Test 1-81 EOO, X57, 3,7,47
10/26	4.4	1-81 EOO, X57, 3,7,47		
10/27 <sup>th</sup>	4.5	1-77 EOO, 12,23,39,60,71,75	4.5& 4.6	1-77 EOO, 12,23,39,60,71,75 1-4 All, 5-41 EOO, X17, 20
10/31	4.6	1-4 All, 5-41 EOO, X17, 20		
11/1Tue		Chapter 4 Review	5.1	Chapter 4 Review 9-53 EOO, 69,73,77
11/2	5.1	9-53 EOO, 69,73,77		
11/3Th		Review Chapter 4 Test		Review Chapter 4 test
11/7	5.3	1-45 EOO, 69,73,77		
11/8	5.5	1-37 EOO, 47,51,55	5.3& 5.5	1-45 EOO, 69,73,77 1-37 EOO, 47,51,55
11/9	5.6	1-17 EOO, 29-45 EOO, 71,72,75,79,81		
11/10	6.1	1-41 EOO, 31,39,51,53,X13,X17	5.6 & 6.1	1-17 EOO, 29-45 EOO, 71,72,75,79,81 1-41 EOO, 31,39,51,53,X13,X17
11/14	6.2	1-25 EOO, 15,43,48,X33		
11/15	6.3	1-4, 5,9,13,31,35	6.2& 6.3	1-25 EOO, 15,43,48,X33 1-4, 5,9,13,31,35

11/16		Chapter 5 & 6 Review		
11/17	7.1	7-43 EOO, 53-65 EOO, 25,77	7.1	Chapter 5 & 6 Review 7-43 EOO, 53-65 EOO, 25,77
11/21	7.2	1-61 EOO, X29, 23,69,72,73		
11/22	7.3	5-41 EOO, 57,61,64,64	7.2& 7.3	1-61 EOO, X29, 23,69,72,73 5-41 EOO, 57,61,64,64
11/23-25		Thanksgiving Holiday		Thanksgiving Holiday
11/28		Review Chapter 5&6 Test		
11/29	7.6	1-61, EOO, 3,5,39,55	7.6	Review Chapter 5&6 Test 1-61, EOO, 3,5,39,55
11/30	7.7	1.33 EOO, 35		
12/1		Chapter 7 Review	7.7	1.33 EOO, 35 Chapter 7 Review
12/5				
12/6-8		Final Test Review		Final Test Review
12/12-16		Final Exams		Final Exams

**Final Exam will be two hour exam in Classroom, see finals week schedule for date & Time.**