

SYLLABUS---MATH 1050
COLLEGE ALGEBRA/PRECALCULUS
CRN# 24363 & 24367
Spring SEMESTER, 2012
M,Tu,W,Th 11am or 1:00pm

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

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Hours: 10 -11am M-Th
12 - 1:00pm M-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. Tests not taken in the testing center by the deadline, will be docked 10% unless the student makes arrangements with the professor ahead of time. 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. Unless students make arrangements BEFORE the review day for each test, any tests not taken on schedule will be penalized by 10% if taken late.

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 a student's 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. While attendance is not mandatory, if you miss class, you may miss a quiz and quizzes can not be made up.

5. QUIZZES: At the discretion of the instructor and on random days, pop quizzes will be given. These quizzes will encourage students to keep up with homework assignments and make sure that at any given time, a student understands the course material being taught. Each quiz will be worth 15 points and there will be as many as 7 quizzes during the semester. A student may drop/miss 1 quiz during the semester without penalty. Quizzes must be taken in class as part of that day's class work. **HINT:** quizzes will often be even numbered problems at the end of each section in the text.

6. ASSIGNMENTS. Homework assignments are to be done each day, but will only be collected at the END OF THE CHAPTER as indicated in the right column in red on the syllabus. Homework turned in after these dates will be docked 10% per class-day unless permission is asked and given by the professor ahead of time. Put all homework for the chapter together and staple in the upper left corner, fold in half lengthwise, and on the outside at the top include: (for example)

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

7. 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. I will be happy to stay after class to give students personal attention with homework or difficult concepts.

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

9. 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, quizzes 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:

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%

CLASS SCHEDULE

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

4 day/wk - 1hr/day Class (1050)		
Date	SEC	ASSIGNMENT
1/9	R.3	1-103 EOO,
1/10	R.4	1-71 EOO, 79-103 EOO
1/11	R.5&6	1-69 EOO 1-69 EOO, 73-107 EOO
1/12	R.7	1-91 EOO
1/16		Holiday - Martin Luther King Day
1/17		Review Chapter Test
1/18	1.1	1-65 EOO, 3, 7
1/19	1.2	1-11 ODD, 15-39 EOO, 17, 25
1/23	1.3	1-77 EOO, 3,7,83,87
1/24	1.4	1-77 EOO, 27, 93, 97
1/25	1.5	1-45 EOO, 3, 57
1/26	1.6	1-77 EOO, 27, 93, 97
1/30	1.7	1-53 EOO, 55-59 ALL, 61-67 EOO, 95
1/31	1.8	1-8 ALL, 9-65 EOO, 81, 85, 89
2/1		Chapter 1 Review
2/2	2.1	13-57 EOO, X41
2/6	2.2	3-27 EOO, 37-49 EOO
2/7		Review Ch 1 Test
2/8	2.3	1-13 EOO, 17-22 ALL, 23-83 EOO
2/9	2.4	1-6 ALL, 9-21 EOO, 25-28 ALL, 31-55 EOO, 59-65 ALL
2/13	2.5	1-4 ALL, 5-57 EOO, 59
2/14	2.6	1-10 ALL, 11-47 EOO, 45,49,50
2/15	2.7	1-69 EOO, 3, 15, 31, 67, 68, 70, 71, 72
2/16	2.8	1-85 EOO
2/20		Holiday: President's Day
2/21		Chapter 2 Review
2/22	3.1	1,3,5-8 ALL, 12, 13-22 ODD, 37-46 ALL, 47-59 EOO, 28, 30, 67
2/23		Chapter 2 Test Review
2/27	3.2	1-22 EOO, 15,41, 43,45
2/28	3.3	5,7,17,19,27
2/29	3.6	1, 3, 7-10 ALL
3/1		CHAPTER 3 REVIEW
3/5	4.1	1-17 ODD, 19-26 ALL, 35-79 EOO, 77
3/6		Chapter 3 Test Review
3/7	4.2	1-25 EOO,49-77EOO,71,75,83
3/8	4.3	1-29 ODD, 59-87 ODD, 91
3/12-16		Spring Break
3/19	4.4	1-81 EOO, X57, 3,7,47
3/20	4.5	1-77 EOO, 12,23,39,60,71,75
3/21	4.6	1-4 All, 5-41 EOO, X17, 20
3/22		Chapter 4 Review
3/26	5.1	9-53 EOO, 69,73,77
3/27	5.3	1-45 EOO, 69,73,77
3/28		Review Chapter 4 Test
3/29	5.5	1-37 EOO, 47,51,55
4/2	5.6	1-79 EOO

4/3	6.1	1-41 EOO, 31,39,51,53,X13,X17	
4/4	6.2	1-25 EOO, 15,43,48,X33	
4/5	6.3	1-4, 5,9,13,31,35	
4/9		Chapter 5 & 6 Review	
4/10	7.1	7-43 EOO, 53-65 EOO, 25,77	HW Due
4/11	7.2	1-61 EOO, X29, 23,69,72,73	
4/12		Review Chapter 5 & 6 Test	
4/16	7.3	5-41 EOO, 57,61,64,64	
4/17	7.4	1-45 EOO, 42,47,49	
4/18	7.6	1-61, EOO, 3,5,39,55	
4/19		Chapter 7 Review	
4/23		Review Chapter 7 Test	
4/24-26		Final Test Review	HW Due
4/27-5/3		Final Exams	

For the 1pm class, Final Exam is as follows:

4/30/2012 (Monday) from 12noon to 2pm

For the 11am class, Final Exam is as follows:

5/2/2012 (Wednesday) from 10am to 12noon