

SYLLABUS---MATH 1050
COLLEGE ALGEBRA/PRECALCULUS
CRN# 24375
SPRING SEMESTER, 2011
M,Tu,W,F 12:00

Instructor: Odean Bowler
Credits: 4 Hours
Text: College Algebra
Tenth Edition
Lial, Hornsby, Schneider

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Hours: by appointment

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 is required. 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.

24375 ASSIGNMENT SCHEDULE (M-1050,S11.57 M,Tu,W,F) 24375

JAN	10	R.4	1-73 EOO, 79-103 EOO	W	23	REVIEW
Tu	11	R.4	CONT.	F	25	TEST CH. 4
W	12	R.5	1,5,17,21,31,39,51,55,57,59	M	28	5.1 9-53 EOO,69,73,77,87
F	14	R.6	1-69 EOO	Tu	29	5.3 1,5,9,13,17,45,61,65,75
M	17	NO SCHOOL		W	30	5.5 1-37 EOO,47,51,55
Tu	18	1.1	1-65 EOO, 3,7	F	1	5.6 1,5,29,33,71
W	19	1.2	1-11 ODD, 15-39 EOO,17	APR	4	6.1 1-41 EOO,31,39,51,53, X 13,17
F	21	1.3	1-77 EOO, 3,7,83,87	Tu	5	6.2 1,5,15,17,25,43,48
M	24	1.4	1-77 EOO, 3,7,31	W	6	6.2 CONT.
Tu	25	1.5	1-45 EOO, 3,57			6.3 TBA
W	26	1.6	1-77 EOO,27,93,97	F	8	REVIEW
F	28	1.7	1-53 EOO, 55-59 ALL, 61-77 EOO, 95	M	11	TEST CHS 5-6
M	31	1.8	1-8 ALL, 9-65 EOO, 81,85,89	Tu	12	7.1 7-43 EOO, 53-65 EOO, 25,77
FEB	1	REVIEW		W	13	7.2 1-61 EOO,23,69, 72,73, X 29
W	2	TEST CHAPTER 1		F	15	7.3 5-41 EOO,57,61,64,65
F	4	2.1	13-57 EOO, X41	M	18	7.3 CONT.
M	7	NO CLASS		Tu	19	7.4 1-45 EOO,42,47,49
Tu	8	2.2	3-27 EOO, 37-49 EOO, 42	W	20	7.4 CONT.
W	9	2.3	1-13 EOO, 17-22 ALL, 23-83 EOO	F	22	7.6 1-49 EOO,35,39,55,X55d
F	11	2.4	1-6 ALL, 9-21 EOO, 25-28 ALL, 33,39,55, 59-65 ALL	M	25	REVIEW
M	14	2.5	1-4 ALL, 5-57 EOO, 59	Tu	26	TEST CH 7
Tu	15	2.6	1-10 ALL, 11-47 EOO, 45, 49,50, X 31,43	W	27	FINAL REVIEW
W	16	2.7	1-69 EOO, 3,15,31,67, 68,70,71,72	MAY		
F	18	2.8	1-85 EOO	W	4	FINAL EXAM 12:30-2:30 pm
M	21	NO SCHOOL				
Tu	22	REVIEW				
W	23	TEST CHAPTER 2				
F	25	3.1	1,3,5-8 ALL,12, 13-25 ODD, 27-30 ALL, 47,49,51,55			
M	28	3.2	1-33 EOO,15,41,43,45			
MAR	1	3.3	5,7,9,17,19,21,27,29,41			
W	2	3.6	1,3, 7-10 ALL, 11-39 EOO, 25			
F	4	4.1	1-17 ODD, 19-26 ALL, 35-79 EOO, 77			
M	7	4.2	1-25 EOO, 49-77 EOO, 71,75,83			
Tu	8	4.3	1-29 ODD,59-87 ODD,91			
W	9	4.4	1-81 EOO, 3,7,47,X57			
F	11	4.5	1-77 EOO,12,23,39, 60,71,75			
M-F	14-18	NO SCHOOL				
M	21	4.5	CONT.			
Tu	22	4.6	1-4 ALL, 5-41 EOO, 20, X 17			