

SYLLABUS---MATH 1050-05
COLLEGE ALGEBRA/PRECALCULUS
CRN# 45102
FALL SEMESTER, 2011
M,Tu,W,F 9:00 -9:50

Instructor: Adina Ionita

Credits: 4 Hours

Text: **College Algebra**
Tenth Edition
Lial, Hornsby, Schneider

Office: NIB 156 8794260

aionita@dixie.edu

Hours: M, Tu, W, F: 8:00-9:00
10:00-11:00

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 scientific calculator is required, and a graphing calculator would be helpful.

3. EXAMINATIONS: Each student is expected to take the examinations as scheduled in the syllabus. 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. The lowest test score can be replaced with the percent earned on the final exam.

4. ATTENDANCE: Attendance is essential and roll will be taken. 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 test.

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 Dmail address after each test. 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%

ASSIGNMENT SCHEDULE

AUG 22	R.4	1-73 EOO, 79-103 EOO	F 28	REVIEW
Tu 23	R.4	CONT.	M 31	TEST CH. 4
W 24	R.5	1,5,17,21,31,39,51,55,57,59	NOV 1	5.1 9-53 EOO,69,73,77,87
F 26	R.6	1-69 EOO	W 2	5.3 1,5,9,13,17,45,61,65,75
M 29	REVIEW		F 4	5.5 1-37 EOO,47,51,55
Tu 30	TEST CH. R.4 - R.6		M 7	5.6 1,5,29,33,71
W 31	1.1	1-65 EOO, 3,7	Tu 8	6.1 1-41 EOO,31,39,51,53, X 13,17
SEP 2	1.2	1-11 ODD, 15-39 EOO,17	W 9	6.2 1,5,15,17,25,43,48
M 5	NO SCHOOL		F 11	6.2 CONT. 6.3 TBA
Tu 6	1.3	1-77 EOO, 3,7,83,87	M 14	REVIEW
W 7	1.4	1-77 EOO, 3,7,31	Tu 15	CAREER DAY
F 9	1.5	1-45 EOO, 3,57	W 16	TEST CHS 5-6
M 12	1.6	1-77 EOO,27,93,97	F 18	7.1 7-43 EOO, 53-65 EOO, 25,77
Tu 13	1.7	1-53 EOO, 55-59 ALL, 61-77 EOO, 95	M 21	7.2 1-61 EOO,23,69, 72,73, X 29
W 14	1.8	1-8 ALL, 9-65 EOO, 81,85,89	Tu 22	7.3 5-41 EOO,57,61,64,65
F 16	REVIEW		W-F 23-25	THANKSGIVING BREAK
M 19	TEST CHAPTER 1		M 28	7.3 CONT.
Tu 20	2.1	13-57 EOO, X41	Tu 29	7.4 1-45 EOO,42,47,49
W 21	2.2	3-27 EOO, 37-49 EOO, 42	W 30	7.4 CONT.
F 23	2.3	1-13 EOO, 17-22 ALL, 23-83 EOO	DEC 2	7.6 1-49 EOO,35,39,55,X55d
M 26	2.4	1-6 ALL, 9-21 EOO, 25-28 ALL, 33,39,55, 59-65 ALL	M 5	REVIEW
Tu 27	2.5	1-4 ALL, 5-57 EOO, 59	Tu 6	TEST CH 7
W 28	2.6	1-10 ALL, 11-47 EOO, 45, 49,50, X 31,43	W 7	FINAL REVIEW
F 30	2.7	1-69 EOO, 3,15,31,67, 68,70,71,72	F 9	FINAL REVIEW
OCT 3	2.8	1-85 EOO	M 12	FINAL EXAM 10:00 -12:00
Tu 4	REVIEW			
W 5	TEST CHAPTER 2			
F 7	3.1	1,3,5-8 ALL,12, 13-25 ODD, 27-30 ALL, 47,49,51,55		
M 10	3.2	1-33 EOO,15,41,43,45		
Tu 11	3.3	5,7,9,17,19,21,27,29,41		
W 12	3.6	1,3, 7-10 ALL, 11-39 EOO, 25		
Th-F 13-14	NO SCHOOL			
M 17	4.1	1-17 ODD, 19-26 ALL, 35-79 EOO, 77		
Tu 18	4.2	1-25 EOO, 49-77 EOO, 71,75,83		
W 19	4.3	1-29 ODD,59-87 ODD,91		
F 21	4.4	1-81 EOO, 3,7,47,X57		
M 24	4.5	1-77 EOO,12,23,39, 60,71,75		
Tu 25	4.5	CONT.		
W 26	4.6	1-4 ALL, 5-41 EOO, 20, X 17		