

**SYLLABUS---MATH 1050**  
**COLLEGE ALGEBRA/PRECALCULUS**  
**CRN# 24375**

**SPRING SEMESTER, 2012**

**M,Tu,W,Th 12:00 p.m.**

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

Office: NIB 121 668-1560  
bowler@dixie.edu  
Hours: M – Th 11:00 am

**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.

**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.

**4. ATTENDANCE:** Attendance is essential and may directly affect your grade. 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 or around the day of the test. 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 posted after each test. Grades will be assigned as follows:

<b>A</b>	100 – 93%	<b>B</b>	85 – 82%	<b>C</b>	72 – 70%	<b>D</b>	56 – 53%
<b>A-</b>	92 – 90%	<b>B-</b>	81 – 78%	<b>C-</b>	69 – 60%	<b>D-</b>	52 – 50%
<b>B+</b>	89 – 86%	<b>C+</b>	77 – 73%	<b>D+</b>	59 – 57%	<b>F</b>	49 – 0%

JAN 9	R.4	1-73 EOO, 79-103 EOO	W 21	4.6	1-4 ALL, 5-41 EOO, 20, X 17
Tu 10	R.4	CONT.			
W 11	R.5	1,5,17,21,31,39,51,55,57,59	Th 22		REVIEW
Th 12	R.6	1-69 EOO	<b>M 26</b>		<b>TEST CH. 4</b>
<b>M 16</b>		<b>Martin Luther King Holiday</b>	Tu 27	5.1	9-53 EOO,69,73,77,87
Tu 17		REVIEW	W 28	5.3	1,5,9,13,17,45,61,65,75
<b>W 18</b>		<b>TEST CH. R.4 - R.6</b>	Th 29	5.5	1-37 EOO,47,51,55
Th 19	1.1	1-65 EOO, 3, 7	APR 2	5.6	1,5,29,33,71
M 23	1.2	1-11 ODD, 15-39 EOO,17	Tu 3	6.1	1-41 EOO,31,39,51,53, X 13,17
Tu 24	1.3	1-77 EOO, 3,7,83,87	W 4	6.2	1,5,15,17,25,43,48
W 25	1.4	1-77 EOO, 3,7,31	Th 5	6.2	CONT.
				6.3	TBA
Th 26	1.5	1-45 EOO, 3,57	M 9		REVIEW
M 30	1.6	1-77 EOO,27,93,97	<b>Tu 10</b>		<b>TEST CHS 5-6</b>
Tu 31	1.7	1-53 EOO, 55-59 ALL, 61-77 EOO, 95	W 11	7.1	7-43 EOO, 53-65 EOO, 25,77
FEB 1	1.8	1-8 ALL, 9-65 EOO, 81,85,89	Th 12	7.2	1-61 EOO,23,69, 72,73, X 29
Th 2		REVIEW	M 16	7.3	5-41 EOO,57,61,64,65
<b>M 6</b>		<b>TEST CHAPTER 1</b>	Tu 17	7.4	1-45 EOO,42,47,49
Tu 7	2.1	13-57 EOO, X41	W 18	7.4	Cont.
W 8	2.2	3-27 EOO, 37-49 EOO, 42	Th 19	7.6	1-49 EOO,35,39,55,X55d
Th 9	2.3	1-13 EOO, 17-22 ALL, 23-83 EOO	M 23		REVIEW
M 13	2.4	1-6 ALL, 9-21 EOO, 25-28 ALL, 33,39,55, 59-65 ALL	<b>Tu 24</b>		<b>TEST CH 7</b>
Tu 14	2.5	1-4 ALL, 5-57 EOO, 59	W 25		FINAL REVIEW
W 15	2.6	1-10 ALL, 11-47 EOO, 45, 49,50, X 31,43	Th 26		FINAL REVIEW
Th 16	2.7	1-69 EOO, 3,15,31,67, 68,70,71,72	<b>F APR 27</b>		<b>FINAL EXAM</b> <b>12:30-2:30 p.m.</b>
<b>M 20</b>		<b>President's Day</b>			
Tu 21	2.8	1-85 EOO			
W 22		REVIEW			
<b>Th 23</b>		<b>TEST CHAPTER 2</b>			
M 27	3.1	1,3,5-8 ALL,12, 13-25 ODD, 27-30 ALL, 47,49,51,55			
Tu 28	3.2	1-33 EOO,15,41,43,45			
W 29	3.3	5,7,9,17,19,21,27,29,41			
MAR 1	3.6	1,3, 7-10 ALL, 11-39 EOO, 25			
M 5	4.1	1-17 ODD, 19-26 ALL, 35-79 EOO, 77			
Tu 6	4.2	1-25 EOO, 49-77 EOO, 71,75,83			
W 7	4.3	1-29 ODD,59-87 ODD,91			
Th 8	4.4	1-81 EOO, 3,7,47,X57			
<b>M-Th 12-16</b>		<b>SPRING BREAK</b>			
M 19	4.5	1-77 EOO,12,23,39, 60,71,75			
Tu 20	4.5	CONT.			

2012 Spring Semester

Calendar Legend

List Schedule

**January 2012**

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	S	10	SG	12	13	14
15	H	DF	18	19	20	21
22	23	LF	25	26	27	28
29	GR	PRFW G				

**February 2012**

S	M	T	W	T	F	S
			NP	2	AD	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	H	21	22	23	24	25
26	MT	28	29			

**March 2012**

S	M	T	W	T	F	S
				1	DR	3
4	5	6	7	8	9	10
11	SB	SB	SB	SB	SB	17
18	SR	JR	SO	OR	23	24
25	26	27	28	29	30	31

**April 2012**

S	M	T	W	T	F	S
1	2	3	4	5	CW	7
8	9	10	11	12	13	14
15	SR	JR	SO	OR	20	21
22	23	24	25	E	FE	28
29	FE					

**May 2012**

S	M	T	W	T	F	S
		FE	FE	FE	CO	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

AD	Last Day to Add/Audit
AD	Last Day to ADD Classes
BR	Semester Break
CD	Career Day
CO	Commencement
CW	Last Day for Complete Withdrawal
DD	Last Day to Drop Individual Class
DF	Drop/Audit Fee Begins (\$10 per class)
DF	Last Day to DROP/AUDIT Classes
	Classwork Ends
FE	Final Exams
FW	Faculty Workshops
GR	Graduation Application Deadline
H	Holiday
IA	Application Deadline For International Students
JR	Registration open to Juniors (60+ credits)
LE	\$50 Late Registration/Payment Fee
MT	Mid-Term Grades Due
NP	Courses dropped for non-payment
OR	Open Registration
PG	Pell Grant Census
RD	Reading Day
RF	Last Day for Refund
S	Classwork Starts
SB	Spring Break
SG	Last Day to Add Without Signature
SO	Registration open to Sophomores (30+ credits)
SR	Registration open to Seniors (90+ credits)
WC	Last Day to drop without receiving a "W" grade

Nov 14	Spring Registration open to Seniors (90+ earned credits)
Nov 15	Spring Registration open to Juniors (60+ earned credits)
Nov 16	Spring Registration open to Sophomores (30+ earned credits)
Nov 17	Spring Registration open to All Students
Jan 9	Classwork Starts
Jan 11	Last Day to Add Without Signature
Jan 16	Martin Luther King, Jr. Day
Jan 17	Drop/Audit Fee Begins (\$10 per class)
Jan 24	\$50 Late Registration/Payment Fee
Jan 30	Graduation Application Deadline
Jan 31	Pell Grant Census
Jan 31	Last Day for Refund
Jan 31	Last Day to drop without receiving a "W" grade
Feb 1	Courses dropped for non-payment
Feb 3	Last Day to ADD Classes
Feb 20	President's Day
Feb 27	Mid-Term Grades Due
Mar 2	Last Day to DROP/AUDIT Classes
Mar 12-16	Spring Break
Mar 19	Summer Registration open to Seniors (90+ earned credits)
Mar 20	Summer Registration open to Juniors (60+ earned credits)
Mar 21	Summer Registration open to Sophomores (30+ earned credits)
Mar 22	Summer Registration open to All Students
Apr 6	Last Day for Complete Withdrawal
Apr 16	Fall Registration open to Seniors (90+ earned credits)
Apr 17	Fall Registration open to Juniors (60+ earned credits)
Apr 18	Fall Registration open to Sophomores (30+ earned credits)
Apr 19	Fall Registration open to All Students
Apr 26	Classwork Ends
Apr 27	Final Exams
Apr 30	Final Exams
May 1-3	
May 4	Commencement

Final Exam Schedule

Fri - April 27		Mon - April 30		Tue - May 1		Wed - May 2		Thur - May 3	
Daily, MTWR, MWF, MW, M Only	Daily, MTWR, MWF, MW, M Only	TR, T Only	Daily, MTWR, MWF, MW, M Only	Daily, MTWR, MWF, MW, M Only	Thur Only				
Class Time	Exam Time	Class Time	Exam Time	Class Time	Exam Time	Class Time	Exam Time	Class Time	Exam Time
9:00am	10:00-12:00pm	7:00am	7:00-9:00am	9:00am	8:00-10:00am	8:00am	7:30-9:30am	7:30/8:00am	7:00-9:00am
12:00pm	12:30-2:30pm	10:00am	9:30-11:30am	12:00pm	11:00-1:00pm	11:00am	10:00-12:00pm	10:30am	9:30-11:30am
3:00pm	3:00-5:00pm	1:00pm	12:00-2:00pm	2:30pm	2:00-4:00pm	2:00pm	12:30-2:30pm	1:00pm	12:30-2:30pm
		4:00pm	2:30-4:30pm						
Fri Only Classes		MW or M Only Classes		TR, T Only Classes		Wed Only Classes		Thur Only Classes	
5:00pm	5:00pm	5:00pm	5:00pm	5:00pm	5:00pm	5:00pm	5:00pm	5:00pm	5:00pm
7:30pm	7:30pm	7:30pm	7:30pm	7:30pm	7:30pm	7:30pm	7:30pm	7:30pm	7:30pm

Final exams for Fri/Sat courses will take place during regularly scheduled class times on April 27th.