SYLLABUS---MATH 1050-40 ONLINE
Pre-Calculus
CRN# 24376
SPRING 2013

Instructor: Michele Poast
Credits: 4 Hours
Classroom: Online

Office: NIB 137 879-4361
poast@dixie.edu
Office Hours: 8:30 – 9:30a M, W
NIB 137
9:30 – 11a M, W
NIB 202 (Lab)

Computer Software: Purchase access code from the Book Store or online www.mymathlab.com.
You can either buy the software access code alone, or the code and a soft cover text book for a little extra.
Course ID #: **poast71487**

TEXT: (Optional) College Algebra, Lial, Hornsby, Schneider, Daniels, Eleventh Edition

You will need access to a computer with internet for daily assignments. Computer labs on campus are available to those students who do not have internet access. If you feel this new system is not what you want, you need to transfer into a non-computer based section. The Math Secretary, Department Chair, or any instructor will help you find another section.

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 and quizzes are available only during scheduled Open Seasons. A final comprehensive exam will be given at the end of the term. Open Season dates are as follows.

1/15-1/22
2/14-2/20
3/7-3/19
4/25-4/30

During Open Seasons, all assignments are re-opened to make up or improve scores. However, proctored assignments are still required to be taken in a proctored setting during Open Seasons.
Homework can always be accessed, even without an open season.

4. ATTENDANCE: Not applicable.

5. ASSIGNMENTS: Homework and Quiz assignments are to be done on the computer each day and submitted. It is very important that you keep current on the assignments.

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=spring2013

8. GRADES: Grades will be based on:

Homework	20%
Quizzes	25%
Chapter Tests	30%
Project	5%
Final Exam	20%

You can see your grade and all your scores on MyMathLab. (Grade book) Letter 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%

Due Date	Day	Assignment	Due Date	Day	Assignment
7-Jan	Mon	Orientation	5-Mar	Tues	H4.2, Q4.1
8-Jan	Tues	Orientation	6-Mar	Wed	H4.3, Q4.2
9-Jan	Wed	HR.4	7-Mar	Thurs	H4.4, Q4.3
10-Jan	Thurs	HR.5, QR.4	11-Mar	Mon	Spring Break!
14-Jan	Mon	HR.6, QR.5	12-Mar	Tues	Spring Break!
15-Jan	Tues	H1.1, QR.6	13-Mar	Wed	Spring Break!
16-Jan	Wed	H1.2, Q1.1	14-Mar	Thurs	Spring Break!
17-Jan	Thurs	H1.3, Q1.2	18-Mar	Mon	H4.5, Q4.4
21-Jan	Mon	Martin Luther King, Jr Day - No School!	19-Mar	Tues	H4.6, Q4.5
22-Jan	Tues	H1.4, Q1.3	20-Mar	Wed	Q4.6
23-Jan	Wed	H1.5, Q1.4	21-Mar	Thurs	Ch 4 Test
24-Jan	Thurs	H1.6, Q1.5	25-Mar	Mon	Project
28-Jan	Mon	H1.7, Q1.6	26-Mar	Tues	Project Due
29-Jan	Tues	H1.8, Q1.7	27-Mar	Wed	H5.1
30-Jan	Wed	Q1.8	28-Mar	Thurs	H5.5, Q5.1
31-Jan	Thurs	Ch 1 Test	1-Apr	Mon	H5.6, Q5.5
4-Feb	Mon	H2.2, Q2.1	2-Apr	Tues	H6.1, Q5.6
5-Feb	Tues	H2.3, Q2.2	3-Apr	Wed	H6.2, Q6.1
6-Feb	Wed	H2.4, Q2.3	4-Apr	Thurs	Q6.2
7-Feb	Thurs	H2.5, Q2.4	8-Apr	Mon	Ch 5/6 Test
11-Feb	Mon	H2.6, Q2.5	9-Apr	Tues	H7.1
12-Feb	Tues	H2.7, Q2.6	10-Apr	Wed	H7.2, Q7.1
13-Feb	Wed	H2.8, Q2.7	11-Apr	Thurs	H7.3, Q7.2
14-Feb	Thurs	Q2.8	15-Apr	Mon	H7.4, Q7.3
18-Feb	Mon	President's Day - No School!	16-Apr	Tues	H7.6, Q7.4
19-Feb	Tues	Ch 2 Test	17-Apr	Wed	H7.7, Q7.6
20-Feb	Wed	H3.1	18-Apr	Thurs	Q7.7
21-Feb	Thurs	H3.2, Q3.1	22-Apr	Mon	Ch 7 Test
25-Feb	Mon	H3.3, Q3.2	23-Apr	Tues	Final Review
26-Feb	Tues	H3.6, Q3.3	24-Apr	Wed	Final Review
27-Feb	Wed	Q3.6			
28-Feb	Thurs	Ch 3 Test	2-May	Thurs	Final Exam
4-Mar	Mon	H4.1			