Dixie State University
http://www.dixie.edu
Syllabus for College Algebra/Pre-Calculus (4.0 credits)
CRN 48456 Math 1050-01 Fall 2016

This course fulfills the General Education Mathematics requirement for students majoring in Business, Elementary Education, Health Sciences, Science, and other majors.

Instructor: Elizabeth Cornwall   Classroom: SNOW 124
Phone: 435-652-7645   Class time: 8:00AM-8:50AM MTWR
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Office hours: MTWR 9:00AM-9:50AM, or by Scheduled Appointment
Date Range: August 22, 2016 – December 9, 2016

Course Objectives:
All classes in mathematics at Dixie College support the general education goal of the college. Each class will:
1. Employ mathematical techniques in computational problems.
2. Students will interpret mathematical models.
3. Construct quantitative, logical arguments.
4. Students will apply mathematical knowledge to real world problems.
5. Communicate in the mathematical language through the use of proper notation and terminology.
6. Students will explore and analyze mathematical concepts, using technology as appropriate.
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

Catalog Description: Fulfills General Education Mathematics requirement for students majoring in Business, Elementary Education, Health Sciences, Science, and other majors. Reviews fundamental algebra; explores polynomial and rational functions; introduces exponential and logarithmic functions and applications; dealing with graphs, identities, and equations, including inverse functions. Required for Utah Level 2 and Level 3 Math Endorsements. Satisfies prerequisites for MATH 1060, MATH 1100, MATH 1210(also needs MATH 1060), and MATH 2010, and Mathematics prerequisite for BIOL 3150, and CHEM 1210.

Class Structure: This section will have an extensive computer based component. This means all homework, reviews, and tests will be done, checked and submitted to the instructor through a computer program called MyMathLab (MML). *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.

▪ **To register for MyMathLab (MML)**, go to http://www.mymathlab.com/ and
   ✓ Under the heading "Register", click "Student".
   ✓ When you are asked for the **COURSE ID** enter *cornwall92301*
   ✓ Follow the instructions to either create an account, or sign in if you have an existing account. If you are creating a new account, you will need to purchase a student **ACCESS CODE** from either the publisher as you are registering or ahead of time from the bookstore. Check both places to see which is less expensive.
   ✓ When you enter your **email account**, please make sure you use the email that you check the most often.
   ✓ If you have questions, please go to http://www.pearsonmylabandmastering.com/northamerica/students/get-registered/index.html and watch the video found by scrolling towards the bottom of the screen or you may contact customer support service (http://www.mymathlab.com/student-support).

   ✓ A 14-day free trial is available through the MML website.

Prerequisite: MATH 1000 or Math 1010 (Grade C or higher) within two years of enrollment in this course; OR ACT or equivalent placement score 23 or higher within two years of enrollment in this course; OR CPT score of 89 or higher within the last two years of enrollment in this course.

eTextbook and Other Expenses: Software based on: **College Algebra 12/e,** by Lial, Hornsby, Schneider, Daniels (not required) but you need to purchase an access code for MyMathLab (Cost approx. $95) A scientific calculator ($8-$20) is recommended; however, you may use the calculator in MyMathLab. Your instructor will be using the TI 30 XII S calculator.

Homework: Assignments are to be completed in MML. Due dates are also posted in MML.
 • You must score a minimum of 70% on your homework sets in order to access the test associated with those sections.
 • You get three attempts to get a problem correct. If after the third attempt you still have not gotten the problem correct, you may request a similar problem to be generated and graded by clicking on the "Help Me Solve This" button of the homework window. You are encouraged to repeat homework problems and obtain a perfect score before the due date.
 • Your homework will be worth 20% of your overall course grade.
 • It is very important that you keep current on the assignments.

Test Reviews: Test reviews are to be completed in MML. Due dates are also posted in MML.
 • No minimum score is required on your test reviews in order to access the test associated with the reviews.
 • You get three attempts to get a problem correct. If after the third attempt you still have not gotten the problem correct, you may request a similar problem to be generated and graded by clicking on the "Similar Exercise" button at the bottom of the homework window. You are encouraged to repeat review problems and obtain a perfect score before the due date.

- If you do not know how to solve a problem, you may select the "Help Me Solve This", "Textbook" or other help features in the right hand menu in the MML review window.
- Your test review scores will count as homework scores.
- You are highly encouraged to do the reviews to help you prepare for your tests.

Tests: Five tests will be given. Each test will be 12% of your overall course grade. **All tests must be taken in the Testing Center**. You may take each test only once. Students are expected to take the tests as scheduled in the syllabus. You may not access the test after the due date. Make-up exams will NOT be given except in documented emergencies, such as death in immediate family, hospitalization (documentation required), active military duty, DSU-sponsored-events requiring mandatory attendance (proof of attendance required). You must notify your instructor immediately in the case of an emergency for consideration and get prior consent if not an emergency. The lowest test score (percentage) can be replaced with the final exam percentage. You may not access other websites or wear headphones while taking the midterm exams. Only non-graphing scientific calculators are allowed on tests.

Final Exam: The final comprehensive exam worth 20% of your overall course grade must be taken on **Wed. Dec. 14th at 8:30am-10:30am. You may take the final comprehensive exam only once**.
You may not access any other websites or wear headphones while taking your final exam. Only non-graphing scientific calculators are allowed on midterm exams.
Attendance: Attendance is essential and may be counted into your grade.
Calculators: Only non-graphing scientific calculators are allowed on tests. Cell phones, iPads, Graphing Calculators, etc. may not be used as calculators on tests.
Grading Policy: Unit Tests 12% each;   Homework/Test Reviews 20%;   Final Exam 20%
Letter grades will be assigned as follows:

A	94 – 100%	**B**	83 – 86%	**C**	70 – 74%	**D**	55 – 59%
A-	90 – 93%	**B-**	80 – 82%	**C-**	65 – 69%	**D-**	50 – 54%
B+	87 – 89%	**C+**	75 – 79%	**D+**	60 – 64%	**F**	0 – 49%

Respect for Others: Please plan to arrive on time and be prepared to work (i.e., have your pencil, eraser, book, paper, homework, and calculator). Additionally, please feel free to offer your opinions and questions to the class, but do not carry on side discussions. **Cell phones should be turned off during class and please refrain from text messaging.** In general, students may not engage in an activity which the instructor deems disruptive or counter-productive to the goals of the class. Instructors have the responsibility to remove offending students from the class. Repetition of offensive behavior may result in expulsion from the class.

Dishonesty: Dishonesty will not be tolerated in any form. Any student cheating on a test will receive a zero. Giving as well as receiving information is dishonest, so be aware of those around you while taking tests. http://www.dixie.edu/humanres/policy/sec3/334.html. Instructors are required, by college policy, to report dishonesty
to the student conduct committee.

Policy for Absences Related to College Functions:
http://www.dixie.edu/humanres/policy/sec5/523.html

Disability Resource Center (DRC): If you are a student with a medical, psychological, or learning disability or think you might have a disability and would like accommodations, contact the Disability

Resource Center (652-7516) in the North Plaza. The Disability Resource Center (http://dixie.edu/drcenter/) will determine eligibility of the student requesting special services and determine the appropriate accommodations related to their disability.

Library: A copy of the text and complete solutions manual for in-house use only are at the Reserve Desk in the Library. For more information concerning the library and hours of operation go to http://library.dixie.edu

Writing Center: The Writing Center is located on the fourth floor of the Holland Centennial Commons if you need assistance with a written assignment in any class. For more information go to http://dixie.edu/english/dsc_writing_center.php

Tutoring Center: The Tutoring Center is located on the fourth floor of the Holland Centennial Commons. Drop-in mathematics tutoring is available. More information is available at http://dsc.dixie.edu/tutoring/index.htm

Testing Center: http://dixie.edu/testing

Computer Lab: The Computer Lab is located in the Smith Computer Center. For more info. go to http://dixie.edu/cit/cis/

 Dmail: You are required to frequently check your Dmail account. Important class and university information will be sent to your Dmail account, including DSU bills, financial aid/scholarship notices, notices of cancelled classes, reminders of important dates and deadlines, and other information critical to your success at DSU and in your courses. To access your Dmail account, visit go.dixie.edu/dmail. If you do not know your Dmail username or you have forgotten your PIN, visit go.dixie.edu/mydixie and follow the respective instructions.

MyMathLab (MML): Please make sure you check your MML account frequently. Go to http://www.mymathlab.com/ to access MML.

Withdrawing from or dropping a class: If you never attend a class, the instructor may withdraw you from it. If you attend even one day, the instructor cannot withdraw you from the class. Since not all instructors will withdraw you for non-attendance, you should take care of that transaction for yourself by going to the registration window. If you quit attending and do not withdraw from the class, you will receive an F or WF which averages into your GPA as an F.

Changing your schedule: It is your responsibility, as the student, to ensure the accuracy of your class schedule. Be sure to check at the beginning of the semester and after every change you make to your schedule. Run a hard copy and keep it!

Complete Withdrawal: Dropping all classes by phone or online does not withdraw you from the college and you may receive all F's. You must contact the Advisement Center, complete a withdrawal form, and surrender your student ID card

Changes: Although unlikely, this syllabus and/or the assignment schedule may be changed if deemed necessary by the instructor. All changes will be announced in class and/or sent to you via MML.

Important Dates: http://dixie.edu/reg/syllabus

MATH 1050 Fall 2016 Schedule

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
8/22 Orientation	8/23 1.1	8/24 1.2	8/25 1.3	8/26	8/27	8/28
8/29 1.4	8/30 1.5	8/31 1.6	9/1 1.7	9/2	9/3	9/4
9/5 LABOR DAY	9/6 1.8	9/7 Review **TEST 1**	9/8 Review **TEST 1**	9/9 **TEST 1**	9/10 **TEST 1**	9/11 **TEST 1**
9/12 2.1 **TEST 1**	9/13 2.2	9/14 2.3	9/15 2.4	9/16	9/17	9/18
9/19 2.5	9/20 2.6	9/21 2.7	9/22 2.8	9/23	9/24	9/25
9/26 Review **TEST 2**	9/27 Review **TEST 2**	9/28 3.1 **TEST 2**	9/29 3.2 **TEST 2**	9/30 **TEST 2**	10/1 **TEST 2**	10/2 **TEST 2**
10/3 3.3 **TEST 2**	10/4 3.4	10/5 3.5	10/6 3.6	10/7	10/8	10/9
10/10 Review **TEST 3**	10/11 Review **TEST 3**	10/12 Review **TEST 3**	10/13 FALL BREAK	10/14 FALL BREAK	10/15 FALL BREAK	10/16 FALL BREAK
10/17 4.1 **TEST 3**	10/18 4.2	10/19 4.3	10/20 4.4	10/21	10/22	10/23
10/24 4.5	10/25 4.6	10/26 Review **TEST 4**	10/27 Review **TEST 4**	10/28 **TEST 4**	10/29 **TEST 4**	10/30 **TEST 4**
10/31 5.1 **TEST 4**	11/1 5.3	11/2 5.4	11/3 5.4	11/4	11/5	11/6
11/7 5.5	11/8 5.6	11/9 6.1	11/10 6.2	11/11	11/12	11/13
11/14 6.2	11/15 Review **TEST 5-6**	11/16 Review **TEST 5-6**	11/17 7.1 **TEST 5-6**	11/18 **TEST 5-6**	11/19 **TEST 5-6**	11/20 **TEST 5-6**
11/21 7.2 **TEST 5-6**	11/22 7.2	11/23 THANKSGIVING	11/24 THANKSGIVING	11/25 THANKSGIVING	11/26 THANKSGIVING	11/27 THANKSGIVING
11/28 7.3	11/29 7.4	11/30 7.4	12/1 7.6	12/2	12/3	12/4
12/5 FINAL REVIEW	12/6 FINAL REVIEW	12/7 FINAL REVIEW	12/8 FINAL REVIEW	12/9	12/10	12/11

FINAL EXAM at **Wed. Dec. 14th at 8:30am-10:30am.**