



# Dixie State College

## Syllabus for Pre-Calculus Online (4.0 credit)

### CRN 45120 Math 1050-40 Fall 2011

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Instructor: Michele Poast  
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Lab hours: M 4-5p; T 8-9a; W 4-6p  
Date Range: Aug 22, 2011 – Dec 9, 2011

Lab room: NIB Room 202  
Class time: N/A

#### Course Objectives:

All mathematics classes at Dixie College will:

1. Require students to perform mathematical processes including fractions, percentages, decimals, proportions/ratios, algebraic equations and/or calculus techniques.
2. Provide students with application problems that use a variety of methods including arithmetical, algebraic, and geometric methods.
3. Challenge students to make inferences from mathematical models that include formulas, graphs, and tables.
4. Provide students with real-life applications that use a variety of mathematical functions.

Upon successful completion of Math 1050, a student 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:** Math 1010, or an ACT/CPT score of 23/89 or higher. This class is fast paced and fluency in the pre-requisite skills is essential! **This course is designed for math and science majors. If you are undecided about a major, you should take this course.**

**Textbook and Other Expenses:** The text for this course is *College Algebra (10th edition)* by Lial, Hornsby and Schneider (online version). **There is no need to purchase a hard copy of the book.** Also required is a graphing calculator. The fee for access to the website, which includes the electronic book is approximately \$80.00.

**Grading:** The grading scale for determining the course grade and the weights given to various activities are given below:

Homework	20%
Quiz Scores	30%
Tests	30%
Final Exam	20%

94-100 = A	73-76 = C
90-93 = A-	70-72 = C-
87-89 = B+	66-69 = D+
83-86 = B	60-65 = D
80-82 = B-	0-59.99 F
77-79 = C+	

**Receiving your grades at the end of the semester:** Your course letter grade will be posted on the internet grading program within 48 hours of the last day of the semester.

**Dishonesty:** Dishonesty will not be tolerated in any form. Any student cheating on a test will receive a zero for that test. Giving as well as receiving information is dishonest.

**Writing Center:** The Writing Center is located on the first floor of the Browning Learning Resource Center if you need assistance with a written assignment in any class. For more information go to [http://dixie.edu/english/dsc\\_writing\\_center.php](http://dixie.edu/english/dsc_writing_center.php)

**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.

**Dmail:** You are required to frequently check your dmail account. Important information will be sent to your dmail account, including DSC bills, financial aid/scholarship notices, notices of cancelled classes, reminders of important dates and deadlines, and other information critical to your success at DSC and in your courses. If you don't know how to access your dmail account, go to [www.dixie.edu](http://www.dixie.edu) and select "Dmail" from the left column.

To locate your email username and password, go to [www.dixie.edu](http://www.dixie.edu), and click on “log in to student services” (upper right corner). You will be held responsible for information sent to your email, so please check it often.

**Disability Resource Center:** If you are a student with a medical, psychological or a learning difference and requesting reasonable academic accommodations due to this disability, you must provide an official request of accommodation to your Professor(s) from the Disability Resource Center within the first two weeks of the beginning of classes. Students are to contact the Center on the main campus to follow through with, and receive assistance in the documentation process to determine the appropriate accommodations related to their disability. You may call (435) 652-7516 for an appointment and further information regarding the Americans with Disabilities Act (ADA) of 1990 per Section 504 of the Rehabilitation Act of 1973.

**Tutoring Center:** The Tutoring Center is located on the first floor of the Browning Learning Resource Center. Drop-in mathematics tutoring is available. The tutoring schedule is posted at the sign-in desk in the Tutoring Center. Tutoring is also available in the NIB building. For more information go to <http://dsc.dixie.edu/tutoring/index.htm>.

**Testing Center:** The Testing Center is located on the first floor of the advising building. For more information go to <http://new.dixie.edu/testing/>.

**Computer Lab:** The Computer Lab is located in the Smith Computer Center. For more information go to <http://new.dixie.edu/cit/cis/>.

**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!

**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 a WF or F which averages into your GPA as an F.

**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.

### **Schedule (for Math 1050 – 40)**

Apr 11 Registration open to Seniors (90+ credits)  
Apr 12 Registration open to Juniors (60+ credits)  
Apr 13 Registration open to Sophomores (30+ credits)  
Apr 14 Open Registration  
Aug 15-19 Faculty Workshops  
Aug 22 Classwork Starts  
Aug 24 Last Day to Add Without Signature  
Aug 29 Drop/Audit Fee Begins (\$10 per class)  
Sep 5 Labor Day  
Sep 6 \$50 Late Registration/Payment Fee  
Sep 12 Pell Grant Census  
Sep 12 Last Day for Refund  
Sep 12 Last Day to drop without receiving a "W" grade  
Sep 13 Courses dropped for non-payment  
Sep 16 Last Day to ADD Classes  
Sep 30 Graduation Application Deadline  
Oct 12 Mid-Term Grades Due  
Oct 13-14 Semester Break  
Oct 17 Last Day to DROP/AUDIT Classes

Nov 11 Last Day for Complete Withdrawal  
Nov 14 Spring Registration open to Seniors (90+ credits)  
Nov 15 Career Day  
Nov 15 Spring Registration open to Juniors (60+ credits)  
Nov 16 Spring Registration open to Sophomores (30+ credits)  
Nov 17 Spring Registration Open to All Students  
Nov 23-25 Thanksgiving Break  
Dec 9 Classwork Ends  
Dec 12-16 Final Exams

**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. Absenteeism is no excuse for not being aware of the changes.