

**Dixie State College of Utah
Department of Mathematics**

COURSE SYLLABUS FALL 2009

I. LOCATOR INFORMATION:

Course Number and Name: **MATH 1050 College
Algebra/Precalculus - 42516**

Semester Hours of Credit: **4**

Time Class Meets: **Assignments based on a MTWR schedule**

Where Class Meets: **Online**

Instructor's Name: **Michele Poast**

Phone/email address: **632-8371** mpoast@yahoo.com

Office Hours: Via email, phone. Otherwise by appointment.

II. COURSE DESCRIPTION/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.

III. PREREQUISITES: Math 1010, or an ACT/CPT score of 23 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.**

IV. TEXTBOOK AND SUPPLIES: 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 \$65.00.

V. EVALUATION CRITERIA/GRADING SCALE: The grading scale for determining the course grade and the weights given to various activities are given below:

Homework	20%
Quiz Scores	25%
Tests	30%
Final Exam	25%

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+	

VI. POLICIES AND PROCEDURES:

1. Late work is acceptable, however will receive a lower score relative to how late the assignment is.
2. It is your responsibility to acquaint yourself with DSC's explicit rules regarding dishonesty.
3. 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.