

**DIXIE STATE COLLEGE of UTAH**  
**SYLLABUS**

for

**BOTH MATH 1050: College Algebra/Pre-Calculus Classes**

Hurricane Campus (4 credits)

Course Begins: January 5, 2009 Course Ends: April 30, 2009

9:00 A.M. Mon. and Wed. CRN 21176

4:00 P.M. Mon. and Wed. CRN 21177

INSTRUCTOR: **Gordon Russell**

OFFICE: **HUR 102**

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PHONE **(H): 635-9314**

OFFICE HOURS: **3:00-3:50 (Mon. to Thur.)**

TUTOR TIMES to be **ARRANGED** in **CLASS**

**A. PREREQUISITE**

The prerequisite for Math 1050 is an ACT/DCAT score of 23 or higher or a grade of C or better in Math 1010.

**B. REQUIRED TEXTBOOK and SUPPLIES**

The textbook for this course is titled *COLLEGE ALGEBRA 10th.EDITION* by Lial, Hornsby, and Schneider at a cost of about \$140.00. The student solutions manual and a computer tutor package are available but not required. A scientific or graphing calculator is required for this course. A copy of the textbook is available for inspection in the library.

**C. 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.
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 processes.

**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, find their intercepts, find maxima, and minima.
4. Analyze the key components of a graph of polynomial and rational functions.
5. Compute the composition and inverses of functions.
6. Graph exponential and logarithmic functions.
7. Apply properties of exponents and logarithms to simplify expressions and solve equations.
8. Solve systems of linear equations by substitution, elimination, matrices, and Cramer's Rule.
9. Perform matrix arithmetic, including determinants.
10. Solve non-linear systems of equations and inequalities.
11. Find terms and sums of terms of arithmetic and geometric sequences and series.
12. Compute the terms of a binomial expansion.

**D. DISABILITY SERVICES:**

*If you are a student with a documented medical, psychological, or learning disability and would like to request accommodations, please contact the Disability Resource Center (652-7516) in the Student Services Center, Room #201. They will determine your eligibility for services based on professional documentation. If eligible, they will authorize reasonable accommodations that are appropriate for your disability.*

**E. DISHONESTY:**

Dishonesty will not be tolerated. Any student cheating on a test will receive a zero for that test. Cheating on the final exam will result in a failing grade for the course. Giving as well as receiving information for a test is dishonest.

**F. CLASS STRUCTURE:**

“Warm-ups” will start the class most days to help you remember the previous material. In lieu of warm-ups a quiz may be given. Next, new material will be presented for discussion to prepare you for homework due the following class. The previous assignment will be discussed to help you understand the course content and give you feedback on your graded assignment.

**G. CHANGES:**

This syllabus and /or assignment schedule may be changed if necessary by the instructor. All changes will be announced in class. ( If you are not in class and are not sure of any assignment changes, then do every third problem.)

**H. Writing Center:** If you need assistance with a written assignment in any class, the Writing center is located on the first floor of the Browning Learning Resource Center.

**I. Computer Center:** There will be two computer centers available for you to use, one is located on Dixie State’s main campus the other is here at the Hurricane Center.

**J. 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 for the Tutoring Center.

**K. Respect For Others:**

To avoid disrupting the work of others, please plan to arrive to class 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 conversations or otherwise prevent those around you from concentrating on the class work and discussions. Cell phones will not be tolerated for any reason during class time. 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 either temporarily or permanently.

**GRADE RECORD** If I make an error in my records concerning your grade, that error must be verified by you with your records in order to provide the necessary changes. The following worksheet may help you:

<i><b>TEST</b></i>	<i><b>QUIZ</b></i>	<i><b>HOMEWORK</b></i>		
1. _____	_____	_____	_____	_____
2. _____	_____	_____	_____	_____
3. _____	_____	_____	_____	_____
4. _____	_____	_____	_____	_____
5. _____	_____	_____	_____	_____
6. _____	_____	<i><b>FINAL</b></i>		
TEST TOTAL	QUIZ TOTAL	HOMEWORK TOTAL		OTHER POINTS
<u>TOTAL POINTS</u>		<u>GRADE PERCENT</u>		<u>FINAL GRADE</u>
		%		

"Do not worry about your difficulties in mathematics; I can assure you that mine are still greater"

Albert Einstein

**Grading as Follows:**

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1. Homework	140	A	94-100	C	70-75
2. Tests	600	A-	90-94	C-	65-70
3. Quizzes	100	B+	87-90	D+	60-65
4. Class Participation	60	B	83-87	D	55-60
5. <u>Final Exam</u>	<u>200</u>	B-	80-83	D-	50-55
		C+	75-80	F	Below 50

**TOTAL POINTS**                      **1100**

**Please Note:** If it is in the best interest of this class to change anything listed, it will be announced in class and you will be expected to follow the changes.

My anticipated grade for this class \_\_\_\_\_.

**Some Ideas and Requirements:**

**Be to Class on Time everyday:** If a problem arises - let me know personally before or as soon as possible. Quizzes, tests and other work cannot be made up. Therefore, additional points could be lost when you choose not to be in class.

**Participate in Class:** This class may require some lessons that involve group participation and /or board work. At times I will ask you to work in class so I can help you before you leave.

**Do The Assignments Everyday:** Homework is assigned as outlined in the assignment schedule and is due the next class meeting. The homework will be graded for effort and completion. All work should be numbered and neatly done showing all significant steps for each problem. (Answers only will receive NO CREDIT).

**Take Every Test on Time:** No make-ups or retakes will be allowed except for very unusual circumstances. However, I will replace your lowest test score with the average of that score and your final exam score. There will be seven unit tests worth 100 points each. Read the schedule and be aware of when tests will be given. Tests will not be given early or late and cannot be made up. If an emergency arises, call me and talk to me personally. The Final Exam is a comprehensive exam worth 200 points. This exam must be taken as scheduled. If you need to change the time and/or date of the exam, you must secure permission from the Dean. He will require you to write an essay explaining the need for the change.

**Take All Quizzes:** Quizzes will be given periodically and unannounced. They will contain problems similar to the homework. They cannot be made up.

If you need additional help, videos and instructors annotated textbook can be viewed in the library. We may set up additional times for this class.

**Important Dates and Final Exam Schedule:** Attached on the back of your Assignment Schedule is a schedule showing all important dates for you to review. This schedule will show all dates that you should be aware of if you plan to make any changes in your schedule. A complete Final Exam Schedule is provided for your convenience so that you may plan times to prepare and study.

**Your Schedule:** It is your responsibility to ensure the accuracy of your class schedule once you receive it. Be sure to check it after every change you make to your schedule.

**Withdrawing from or dropping a class:** If you never attend a class, the instructor may withdraw you. If you attend for even one day, the instructor cannot withdraw you from the class. It is your responsibility to take care of the problem yourself. You should go to the registration area and discuss it with them. If you stop attending and do not withdraw from the class, you will receive a letter grade of "WF" which will then convert to an "F" grade on your GPA.

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

**Receiving your Grades at the end of the semester:** Your course grade will be posted on the internet grading system program as soon as possible after the final exam has been graded and grades are tabulated. This should occur no later than 48 hours after the final exam is given in all classes.

*SUCCESS is determined mainly by your ATTITUDE and PERFORMANCE,  
not your talent or potential.*

### ATTITUDES

"The longer I live, the more I realize the impact of attitude on life. Attitude, to me, is more important than facts. It is more important than the past, than education, than money, than circumstances, than failures, than success, than what other people think say or do. It is more important than appearance, giftedness, or skill. It will make or break a company... a church... a home. The remarkable thing is we have a choice everyday regarding the attitude we will embrace for that day. We cannot change our past...we cannot change the fact that people will act in a certain way. We cannot change the inevitable. The only thing we can do is play on the one string we have, and that is our ATTITUDE... I am convinced that life is 10% what happens to me and 90% how I react to it. And so it is with you... We are in charge of our ATTITUDES."

Charles Swindoll