

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

for

**MATH 1050: College Algebra/Pre-Calculus** (4 Credits)

Course Begins: May 31, 2011 Course Ends: July 21, 2011

INSTRUCTOR: **Gordon Russell**

OFFICE: **HUR 102**

PHONE: **(O) 652-7918**

E-mail: **russell@dixie.edu**

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

OFFICE HOURS: 3:00-4:00 (M to Th) 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.

**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:**

Proper documentation of a disability is required in order to receive services or accommodations. Any student eligible for and requesting reasonable academic accommodations due to a disability must provide a letter of accommodation to their professor from the Disability Resource Center within the first two weeks of the beginning of classes. Please contact the Center on the main campus to follow through with the documentation process. They are located in the Student Services Center, Room #201. You may call for an appointment and further information regarding the Americans with Disabilities Act (ADA) at 652-7516.

**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:**

Most classes will have "Warm-ups" or quizzes, new material presented, old material reviewed and assignments collected. Missing class will mean missed points and can affect your grade.

**G. CHANGES:**

This syllabus and /or assignment schedule may be changed if necessary by the instructor. All changes will be announced in class.

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

### Grading as Follows:

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:**

**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.

**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 Prof. Mortensen. He will require you to write a 250 word 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.

**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

**DIXIE STATE COLLEGE**

**SUMMER 2011 MATH 1050 Classes**

For Prof. Gordon Russell

**(4 Credits) Pre-requisite: ACT score (23+) Room: 133 N.I.B.**

**Math 1050-03** CRN # 31296 (1:00-2:50) **AND Math 1050-50** CRN # 31295 (5:00-6:50)

INST. Prof. **Gordon Russell** E - Mail: [russell@dixie.edu](mailto:russell@dixie.edu) Phone: 652-7918(W) 635-9314 (H)

All assignments are due the next class. Assignments turned in late will have points deducted.

Changes in this schedule may occur if necessary by the instructor except for the time and date of the  
FINAL EXAM.

If you cannot take the final exam at the scheduled time, you must secure permission from the Dept. Chairperson to change the date and/or time. Write a 250 word essay explaining the reason for the change. I am not authorized to make the change.

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
30	31 Class Procedures	<b>June 1</b> <u>R. 3</u> (10-90)/5 <u>R. 4</u> (5-100)/5 Last Day to + w/o sign	2 <u>R. 5</u> (5-65)/5 <u>R. 6</u> (5-105)/5	3
6 <u>R. 7</u> (5-85)/5	7 <b><i>Review for TEST #1</i></b> <b><i>Finished by June 10</i></b> (\$25 late fee)	8 <u>1. 1</u> (10-65)/5 <u>1. 2</u> (15-39)/3	9 <u>1. 3</u> (15-90)/5 <u>1. 4</u> (10-80)/5 Last Day for refund	10
13 <u>1. 5</u> (9-21)&(30-39)/3 <u>1. 6</u> (5-45)/5&80,85 Last Day to Add or Drop	14 <u>1. 7</u> (15-65)/5 <u>1. 8</u> (15-65)/5	15 <b><i>Review for Test #2</i></b> <b><i>Finished by June 17</i></b>	16 <u>2. 1</u> (15-60)/5 <u>2. 2</u> (3-27)/3&42	17
20 <u>2. 3</u> (15-80)/5&83 <u>2. 4</u> (5-65)/5	21 <u>2. 5</u> (5-55)/5 <u>2. 6</u> (12-39)/3&49,50	22 <u>2. 7</u> (5-65)/5 <u>2. 8</u> (5-70)/5	23 <b><i>Review for Test #3</i></b>	24
<b><i>27 TEST # 3</i></b> <b><i>(Take home)</i></b> <b><i>(DUE Tuesday)</i></b> Last Day to DROP	28 <u>3. 1</u> (5-55)/5 <u>3. 2</u> (5-55)/5 <u>3. 3</u> (5-55)/5:73,81,85	29 <u>3. 4</u> (21-61)eoo <u>3. 5</u> (64-69)all <u>3. 6</u> (11-43)eoo	30 <u>6. 1</u> (5-40)/5 & 53 <u>6. 2</u> (1-17)eoo <u>6. 3</u> (3,7,11,15,17,19,31)	<b><u>July 1</u></b>
4 Holiday (No Class)	5 <b><i>Review for Test # 4</i></b> <b><i>Finished by July 8</i></b>	6 <u>4. 1</u> (35-80)/5 <u>4. 2</u> (25-80)/5	7 <u>4. 3</u> (3-30)&(60-84)/3 <u>4. 4</u> (11-26)&(61-73)all	8 Last Day for Complete Withdrawal
11 <u>4. 5</u> (5-75)/5: not 55 <u>4. 6</u> (5-9,11,12,13,20,21,27,30)	12 <b><i>Review for Test # 5</i></b> <b><i>Finished by July 10</i></b>	13 <u>5. 1</u> (10-35)/5&47,49 &(89-97)odd <u>5. 3</u> (5-45)/5&61,63,65 &55 for A(3,2)	14 <u>5. 4</u> (6,7) <u>5. 5</u> (5-35)/5 & 47,51 <u>5. 6</u> (5-45)/5 & 71,75	15
18 <u>7. 1</u> (5-55)/5 <u>7. 2</u> (5-60)/5 & 69,73 <u>7. 3</u> (1-41)eoo & 64	19 <b><i>Review for Test # 6</i></b> <b><i>Test # 6 (In Class)</i></b>	20 <b><i>Review for Final Exam</i></b> <b><i>Include 7. 4, 7. 6, 7. 7</i></b>	21 <b><u>FINAL EXAM</u></b>	22

**Cellular phones MAY NOT used for ANY REASON in this classroom or the Testing Center.**