Dixie State College of Utah Department of Mathematics Spring 2008 Course Syllabus

COURSE: Math 1050-09, College Algebra, M~F 11:00 ~ 10:50 AM

Room Number: NIB 150 5 Credit Hours

INSTRUCTOR: Dr. Clare Banks, <u>banks@dixie.edu</u>

Office Hours: M~R 9~9:50, F 10~10:50 and by appointment.

REQUIRED: Bittinger, M., Beecher, J., Ellenbogen, D., & Penna, J.(2006), *Algebra and*

TEXT Trigonometry, NY: Pearson/Addison Wesley

PREREQUISITES: C or better in Math 1010 or ACT Math score of 23 or higher.

CALCULATOR: A graphing calculator is required. You are not allowed to share

calculators during tests or quizzes. The model TI-83 Plus will be used in class. I highly recommend a TI-83 Plus, a TI-84, or a TI-89 calculator (for

Calculus-bound students)

COURSE WORK:

The student's final grade will be determined by her/his performance on homework, midterm exams, and the final exam.

- *Final Exam*: Wednesday, April 30th 10:00 ~12:00 AM The exam will be cumulative.
- *Homework*: Homework will be assigned and collected every Friday. The homework may be graded or just checked off. If it receives a check mark, that will indicate full credit. Do not hand in incomplete homework. Most of the time, a list of answers is not sufficient, you must show work. Check your answers in the back of the text when possible. Clearly label your homework with chapter and section numbers. Start each section with a clean page. Do not staple more than one section together.
- *Exams*: There will be 7 exams. Each exam will be worth 100 points. No makeup exams will be given except in the case of a documented illness. The lowest test score will be dropped.
- Grading: Final 20%, Exams 60%, HW 20%
- Attendance: Attendance is essential and roll will be taken, but will not be counted into your grade. You are responsible for all announcements and materials presented in the class.

GRADES: Grades will be assigned as follows:

Percent	Grade	Percent	Grade	Percent	Grade
94-100	A	80-82	B-	60-64	D+
90-93	A-	75-79	C+	55-59	D
87-89	B+	70-74	C	50-54	D-
83-86	В	65-69	C-	< 50	F

DISABILITIES: If you are a student v

If you are a student with a documented physical or mental impairment that will substantially limit a major life activity, please contact the Disability Resource Center on the main campus. The Center Coordinator and staff will assist you in analyzing your eligibility for services. If you are deemed eligible, reasonable accommodations that are appropriate for your disability will be assigned. If you have any questions concerning

this process, please contact the Center at 652-7516; we are located in the Student Services Center, Room #201 of the Edith Whitehead Building.

REBELMAIL:

Important class and college information will be sent to your Rebelmail email account. This information includes your DSC bill, financial aid/scholarship notices, notification of dropped classes, reminders of important dates and events, and other information critical to your success in this class and at DSC. All DSC students are automatically assigned a Rebelmail email account. If you don't know your user name and password, go to www.dixie.edu and select "Rebelmail," for complete instructions. You will be held responsible for information sent to your Rebelmail email, so please check it often.

COURTESY, ETC: No headphones during class or tests. Cell phones should be off.

Please do not come late or leave early.

DISHONESTY: If it is determined that you cheated, you will receive a zero for that exam.

If cheating occurs a second time, you will receive an F for the course.

HELP: I am available during my office hours and by appointment. Browning

Resource Center also has tutors available.

SUCCESS: To be successful in this course, follow these guidelines: 1) read before

> class, 2) attend all classes, 3) do all homework, 4) study each day – do lots of practice problems, 5) seek help immediately if you are lost, 6) have fun

with it!

OBJECTIVES: All classes in mathematics at Dixie College support the general education goal of the college. Each class will:

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

Math 1050 is designed for students majoring in science or engineering who will need Calculus and/or Physics. Upon successful completion of this course, the students will demonstrate through testing the ability to:

- Apply functional notation.
- Determine symmetries that exist in the graph of an equation.
- Graph polynomial functions and find their intercepts, maxima, and minima.
- Analyze the key components of the graph of polynomial and rational functions.
- Compute the composition and inverses of functions.
- Graph exponential and logarithmic functions.
- Apply properties of logarithms and exponents in simplifying expressions and solving equations.
- Solve systems of linear equations using substitution, elimination, matrices, and Cramer's rule.
- Solve non-linear systems of equations and inequalities.
- Find terms and sums of terms of arithmetic and geometric sequences and
- Compute the terms of a binomial expansion.

Tentative (Subject to Change)

6 7 10 11 12 <th>SUN</th> <th>MON</th> <th>TUE</th> <th>WED</th> <th>THU</th> <th>FRI</th> <th>SAT</th>	SUN	MON	TUE	WED	THU	FRI	SAT
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Final Final Final Final	27						
27 28 29 30 1 2 3 3 Final Exam	27	28	29		1	2	3
10~12							

Feb 20 Last day to add classes without instructor permit

Feb 28 Last day for refund of tuition & fees

Mar 28 Last day for complete withdrawal

May 2 Commencement Exercises

Homework Problems

3-7

1-39 odd

R.1	5-11, 13-45 eoo, 47-58, 59-75 eoo	4-1	1-101 eoo
R.2	1-77 eoo	4-2	1-10, 13-89 eoo
R.3	1-41 eoo	4-3	1, 5, 7-53 odd, 57-89 eoo, 92, 95, 97
R.4	1-113 eoo	4-4	1-49 eoo, 53-75 odd
R.5	1-61 eoo	4-5	1-61 eoo
R.6	1-121 eoo	4-6	1-19 odd, 21-26, 29
R.7	1-53 eoo		
		8-1	9-37 eoo, 41-47, 49-65 eoo, 79-82
1.1	7-15 odd, 36-40, 51, 57-85 eoo, 93-	8-2	1-33 eoo
1.1	113 eoo	8-6	1-33 e00 1-37 odd
1.0			
1.2	1-69 eoo	8-7	1-8, 9-29 eoo, 31-36, 37-43 odd,
1.3	3-51 eoo	0.0	57-63 odd, 65-77 eoo
1.4	1-47 eoo, 49-57 odd, 77-85 eoo	8-8	1-25 odd
1.5	1-15 odd, 21-73 eoo		
1.6	1-33 eoo, 39-91 eoo	10.1	1.60 71.75 11
1.7	1-6, 7-83 eoo, 85-92, 93-101 odd,	10-1	1-69 eoo, 71-75 odd
	107, 115-122	10-2	1-45 odd
		10-3	1-61 odd
0.1	11 101	10-5	1-41 odd
2.1	11-101 eoo	10-6	
2.2	1-73 eoo	10-7	*
2.3	1-53 eoo, 55-60, 69-85 eoo, 103-119 eoo	10-8	1-23 odd, 36-43
2.4	1-13 eoo, 15-22, 29-53 eoo		
2.5	1-101 eoo		instructor reserves the
2.6	1-61 eoo	_	t to change any of the rmation on the syllabus
2.1	1 10 11 25 10 67 72		
3-1	1-19 odd, 25-49 eoo, 67-73		
3-2	6-13, 15-29 eoo, 33-39 odd		
3-3	1-53 eoo		
3-5	1-6, 7-25 odd, 29-73 eoo		
3-6	1-15 odd, 17-69 eoo		