

COURSE: Math 1060, TRIGONOMETRY, MWF 8:00 ~ 8:50 AM

INSTRUCTOR: Dr. Clare Banks, banks@dixie.edu Office: NIB 138 Phone: 652-7982
Office Hours: MWF 9:00~11:50, M 4:00~5:00 and by appointment.

**REQUIRED :
TEXT** Bittinger, M., Beecher, J., Ellenbogen, D., & Penna, J. (2006),
Algebra and Trigonometry (3rd edition) New York: Addison Wesley

CALCULATOR: A graphing calculator is required. The teacher will use the TI-83.

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

- *Final Exam:* Monday, December 15, 7:30~9:30 AM
The exam will be cumulative.
- *Homework:* Homework will be assigned and collected regularly. Late homework will receive a 10% late penalty per day, regardless of the reason. The homework may be graded or just checked off. If it receives a check mark, that will indicate full credit. Show all work. Neatness is everything. 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. Please do not staple more than one section together.
- *Quizzes:* quizzes are generally given on Fridays; there will be **no make up quizzes**.
- *Exams:* There will be 4 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 can be replaced with the percent earned on the final exam.
- *Grading:* Final – 15%, Exams – 60%, HW – 10%, Quiz – 15%
- *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	B	65-69	C-	<50	F

DISABILITIES: 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.

CHEATING: 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 goals of the college. Each class will:

- Require students to perform mathematical processes including fractions, percentages, decimals, proportions/ratios, algebraic equations and/or calculus techniques.
- 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.

The primary purpose of Math 1060 is present students opportunities for students to learn the ideas of the mathematical field of trigonometry. This knowledge will allow students to apply this field of study in classes of Calculus, Physics and Engineering, as well as some real world applications. Although this class can be used to fulfill the general education requirements of Dixie College, it is not recommended as a singular class.

Upon successful completion of Math 1060, a student will demonstrate through testing

- Manipulate and evaluate trigonometric functions.
- Use proofs to work with the trigonometric functions to prove trigonometric identities.
- Demonstrate the ability to use trigonometric identities to solve real world applications.
- Use vectors geometrically and algebraically to solve problems.

Fall 2008 Schedule
Tentative (Subject to Change)

MON	WED	FRI
25	27 Intro, 5-1	29 5-1, Quiz 1
1 <i>Sep</i> <i>No Class</i>	3 5-2	5 5-2, Quiz 2
8 5-3	10 5-3, 5-4	12 5-4, Quiz 3
15 5-5	17 5-6	19 Review, Quiz 4
22 Exam I	24 6-1	26 6-1, 6-2, Quiz 5
29 6-2	1 <i>Oct</i> 6-3	3 6-3, 6-4 Quiz 6
6 6-4	8 6-5	10 Review, Quiz 7
13 Exam II	15 PSAT	17 <i>No Class</i>
20 7-1	22 7-2	24 7-3, Quiz 8
27 7-4	29 7-5	31 7-6, Quiz 9
3 7-6	5 Review	7 Exam III
10 9-1	12 9-2	14 9-3, Quiz 10
17 9-5	19 AMATYC	21 AMATYC
24 9-6	26 <i>No Class</i>	28 <i>No Class</i>
1 <i>Dec</i> 9-7	3 Review	5 Exam IV
8 Final Review	10 Final Review	12 Quiz 11 Final Review
15 Final Exam 7:30~9:30	17	19

5-1 1~81 eoo, 83~97 odd
 5-2 1~29 eoo
 5-3 1~105 eoo
 5-4 1~65 eoo, 67~79 odd, 83~90
 5-5 1~41 eoo, 43, 47, 49~54
 5-6 1~29 eoo, 33~41, 53~59 odd
 (Exam I)

6-1 1~45 eoo, 47~75 odd
 6-2 1~37 odd, 57, 59
 6-3 1~29 eoo, 31~36
 6-4 1~65 eoo, 72~80
 6-5 1~49 eoo
 (Exam II)

7-1 1~29 eoo
 7-2 1~33 eoo, 39~48
 7-3 1~73 eoo
 7-4 1~69 eoo, 79~90
 7-5 1~41 eoo, 45~54
 7-6 1~85 eoo
 (Exam III)

9-1 1~6, 9~33 eoo
 9-2 1~6, 9~17 eoo, 19~22,
 25~45 eoo, 47~53 odd,
 57~64
 9-3 1~6, 9~33 eoo, 35~39 odd, 51
 9-5 3~19 eoo, 21~25 odd
 9-6 1~6, 9~21 eoo, 39~47 odd
 9-7 1~37 eoo
 (Exam IV)