

MATH 1060: TRIGONOMETRY
3 SEMESTER HOURS
SUMMER SEMESTER 2009
CLASSROOM: NIB 133

INSTRUCTOR: MORTENSEN
OFFICE: NIB 133 B
PHONE: 652-7764
OFFICE HOURS: BY APPT.

TEXTBOOK:ALGEBRA AND TRIG. By Lial, Hornsby,and Schneider, 9th Edition

MATERIALS NEEDED A graphing calculator is required. The teacher will use the TI-89.

MATHEMATICS AT DIXIE COLLEGE. All classes in mathematics at Dixie College support the general education goal of the college. Within the limitations imposed by the nature of mathematics (i.e. the dependency on prior learning and the need for content fluency), 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

Purpose of Math 1060, Trigonometry

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.

Objectives:

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

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

CLASS ATTENDANCE: In order to be successful in mathematics, you must choose to attend class on a regular basis. Statistics have definitely shown that grades improve with better attendance.

CLASS PARTICIPATION: Be willing to be involved in the class as an active participant. Ask questions, contribute toward solutions, and be interested in the class activities. In order to be successful, you must be involved as a participant, not on the sidelines as a spectator.

MAKING A FRIEND IN THE CLASS: Attempt to make a friend in your class. You may find you enjoy sitting together and drawing support and encouragement from one another. Study together whenever possible!!

GETTING HELP: Getting the right kind of help at the right time can be a key ingredient to being successful in math. When you have gone to class on a regular basis, taken careful notes, read your text carefully, diligently done your homework, thus making every effort possible to learn the mathematical skills, you may find that you are still having difficulty. If this is the case, then you need to seek help. Make an appointment with the instructor to find out what help is available to you in the form of instructor time, tutoring service, math labs and computer software.

HOMEWORK ASSIGNMENTS: Keep in mind that math is a skill that can only be learned and mastered by doing it yourself with lots and lots of practice. **There is no other way!** Set aside some time each day for doing homework assignments. Do not attempt to do a whole chapter's assignments at one sitting. That is a disaster! **A minimum of two hours** spent studying outside of class for each hour in class is usually required for college courses.

GRADING: During the semester, THREE, approximately 100-point tests will be given(see schedule). Also on the day after the test closes, all homework for that chapter(s) will be due. The homework is graded on completion and is worth 20 points each chapter(s). The final exam will be comprehensive and worth approximately 200 points. **All** tests will count toward your grade. Your lowest chapter exam can be replaced with the percent on the final exam. Make-up exams as a general rule will not be given, the teacher may allow them in **rare** cases. **Reading quizzes will be given at the discretion of the teacher.**

GRADING SCALE:

94%-100%=A
90%-93%=A-
80%-82%=B- 75%-79%=C+
60%-64%=D+55%-59%=D

87%-89%=B+
70%-74%=C
50%-54%=D-

83%-86%=B
65%-69%=C-
0%-50%=F

DISABILITY NOTICE

“If you are a student with a medical, psychological, or learning disability or think you might have a disability and would like accommodations, contact the Disability Resource Center (652-7516) in the Student Services Center. The Disability Resource Center will determine eligibility of the student requesting special services and determine the appropriate accommodations related to their disability.”

CODE OF CONDUCT: Dishonesty, including, but not limited to, cheating, plagiarism, or knowingly furnishing false information to the college, will result in expulsion from the class.

TRIG SCHEDULE

(The instructor reserves the right to modify this schedule)

DAY SEC.ASSIGNMENT

JUNE	2	1.1	1-129 E.O.O.						
		1.2	1-69 E.O.O., 62		JUNE	23		CHAPTER 3&4	
						REVIEW			
	3	1.3	1-81 E.O.O., 95-103 ODDS			23-29		CHAPTER 3&4 TEST	
		1.4	1-81 E.O.O., 85-94					(IN TESTING	
								CENTER)	
80, 81	4	2.1	1-57, 67-79 E.O.O.,			24	5.1	1-6, 7, 9, 11, 13-24,	
		2.2	1-6, 10-18, 32, 37-43,					28, 32-44, 49, 51,	
ODDS			58-63, 66, 71-81				5.2	53-69 E.O.O.	
ODDS								1-77 E.O.O.	
						25	5.3	1-4, 7-63 E.O.O.	
JUNE	9	2.3	1-5, 11-31 ODDS,				5.4	1-6, 9-65 E.O.O., 67-	
			40,			69			
			45-61 E.O.O.						
		2.4	1-15 ODDS, 21-53 E.O.O.		JUNE	30	5.5	1-6, 9-53 E.O.O., 57-	
						64		64	
	10	2.5	5-17 ODDS, 19-35				5.6	1-10, 11-55 E.O.O.	
E.O.O.									
	11		CHAPTER 1&2		JULY	1	6.1	1-12, 13-65 E.O.O.,	
REVIEW						67-69		67-69	
							6.2	11-51 E.O.O.	
JUNE	11-16		CHAPTER 1&2 TEST			2	6.3	2, 4, 7-39 E.O.O.	
			(IN TESTING CENTER)				6.4	1-45 E.O.O.	
JUNE	16	3.1	1-6, 9-61 E.O.O.,		JULY	7		CHAPTER 5&6	
			63-81 ODDS			REVIEW			
		3.2	1-11 ODDS, 13-37						
E.O.O.									
			39-45 ODDS,			7-13		CHAPTER 5&6	
			49-65 E.O.O.,62					(IN TESTING	
								CENTER)	
ODDS	17	3.3	1-53 E.O.O., 55-73			8	7.1	1-4, 5-17 E.O.O., 25-49	
		3.4	3-17 ODDS,					E.O.O.	
			19-43 E.O.O., 37				7.2	1-3, 11-35 E.O.O.	
							7.3	3-47 E.O.O.,61-67	
	18	4.1	1-12, 13-37 E.O.O.,					ODDS,73,74	
			41-51 ODDS						
		4.2	1-12, 15-24, 25-57			9	7.4	1-4, 7-91 E.O.O.	
E.O.O.							7.5	1-29 E.O.O.	
		4.3	TBA		JULY	14	8.1	1-6, 7-107 E.O.O.	

	8.2	1-3, 7-47 E.O.O., 53-58
15	8.3	1-4, 5-23 ODDS, 33-39
	8.4	1-41 E.O.O., 51, 53
37-40	16	8.5 1-21 E.O.O., 23, 25, 27, 41-61 E.O.O., 73, 75
		8.6 1-4, 5-45 E.O.O.
JULY	21	TBA/FINAL REVIEW
	22	FINAL REVIEW
	23	FINAL EXAM