

MATH 1060.01: TRIGONOMETRY
3 SEMESTER HOURS
SPRING SEMESTER 2013
CLASSROOM: NIB 133

INSTRUCTOR: MORTENSEN
OFFICE: NIB 120
PHONE: 652-7764
OFFICE HOURS: Mon., Wed., 11-12, Tues. 10-12 AM
& by appointment

TEXTBOOK: TRIGONOMETRY. By Sullivan, 9th Edition

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

✓ **ACourseID:** mortensen84113

✓ **A valid email address that you check regularly** This address will be used to confirm your registration and for other communication about the course. Your instructor will also use this email address to communicate with you

✓ **A student access code:** Computer Software: Purchase from Book Store
This section will be taught as a lecture course but will include an extensive computer based component. This means all homework will be done, checked and submitted to the instructor on the computer through a program called My Math Lab. You will also be given practice tests and review problems on the computer, although the chapter tests and final exam will be given in class or testing center. **You will need access to a computer with internet for daily assignments.** Computer labs on campus are available to those students who do not have internet access. We suggest that you go to the following web site and watch the information under “students” before making any decision to purchase the software:
<http://www.coursecompass.com> . You will receive more complete instructions on the first day of class.

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, FOUR, approximately 100-point tests will be given(see schedule). Also on the day of the test, 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 **ONE** lowest chapter exam can be replaced with the percent on the final exam. **Make-up exams will not be given.** If you miss more than one test, your chances of passing the class are greatly diminished. **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+

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

JAN.	7	2.1			
	9	2.1		MAR.	1 REVIEW
	11	REVIEW		MAR.	4 4.3
JAN.	14	2.2			6 4.4
	16	2.3			8 CH. 4 REVIEW
	18	REVIEW			TBA-CHAPTER 4 TEST
JAN.	21	MARTIN LUTHER KING DAY (NO SCHOOL)		MAR.	11-15 SPRING BREAK (NO SCHOOL)
	23	2.4 2.5 2.6		MAR.	18 5.1
	25	CHAPTER 2 REVIEW			20 5.2
		TBA CHAPTER 2 TEST			22 REVIEW
JAN.	28	3.1		MAR.	25 5.3
	30	3.2			27 5.4
FEB.	1	REVIEW			29 REVIEW
FEB.	4	3.3		APR.	1 5.5
	6	3.4			3 5.7
	8	REVIEW			5 CH. 5 REVIEW
FEB.	11	3.5			TBA-CHAPTER 5 TEST
	13	3.6		APR.	8 6.1 NO ASSIGNMENT 6.2
	15	REVIEW			9 6.3
FEB.	18	PRESIDENTS DAY (NO SCHOOL)			11 6.4
	20	3.7		APR.	15 6.6
	22	CHAPTER 3 REVIEW			17 6.7
		TBA-CHAPTER 3 TEST			19 REVIEW
FEB.	25	4.1			TBA-CHAPTER 6 TEST
	27	4.2		APR.	22 FINAL REVIEW
					24 FINAL REVIEW
					26 FINAL EXAM 9:30 AM

(IN CLASSROOM)