

MATH 1316.Section
Trigonometry
Fall 2008
8/25/08 – 12/11/08

Meeting Time:
Credit Hours: 3 Semester Hours
Prerequisites: MATH 1314, MATH 1414 or equivalent

Professor:
Email:
Office Phone Number:
Office Number:
Office Hours:
Division: Business, Computer Science and Mathematics
Office Hours: M – R 7:30 am – 8:30 pm, F- 7:30 am – 5:00 pm
Office Phone: 214-860-8645
Office Number: W210

Course Materials/Supplies Needed

TRIGONOMETRY, by McKeague/Turner, 6th edition (ISBN# 9780495108351)
(OPTIONAL) SOLUTION MANUAL (9780495382584)
TI – 83 OR TI-83 PLUS CALCULATOR RECOMMENDED

Course Description:

This course is a study of angular measures, functions of angles, identities, solutions of triangles, equations, inverse trigonometric functions, and complex numbers.

Exemplary Educational Objectives:

The objective of the mathematics component of the core curriculum is to develop a quantitatively literate college graduate. Every college graduate should be able to apply basic mathematical tools in the solution of real-world problems.

1. To apply arithmetic, algebraic, geometric, higher-order thinking, and statistical methods to modeling and solving real-world situations.
2. To represent and evaluate basic mathematical information verbally, numerically, graphically, and symbolically.
3. To expand mathematical reasoning skills and formal logic to develop convincing mathematical arguments.
4. To use appropriate technology to enhance mathematical thinking and understanding and to solve mathematical problems and judge the reasonableness of the results.
5. To interpret mathematical models such as formulas, graphs, tables and schematics, and draw inferences from them.
6. To recognize the limitations of mathematical and statistical models.
7. To develop the view that mathematics is an evolving discipline, interrelated with human culture, and understand its connections to other disciplines.

Educational Outcomes:

Upon successful completion of this course you should be able to:

1. use trigonometric ratios to solve right triangle problems
2. use radian measure to solve circle problems and circular motion problems
3. graph trigonometric functions
4. prove trigonometric identities
5. solve trigonometric equations
6. use the Law of Sines and the Law of Cosines to solve oblique triangle problems
7. solve problems involving complex numbers in trigonometric form

8. solve problems involving inverse trigonometric functions

Course Content:

Chapter 1	The Six Trigonometric Functions
Chapter 2	Right Triangle Trigonometry
Chapter 3	Radian Measure
Chapter 4	Graphing and Inverse Functions
Chapter 5	Identities and Formulas
Chapter 6	Equations
Chapter 7	Triangles
Chapter 8	Complex Numbers and Polar Coordinates

Note: The instructor may omit certain topics in these chapters.

Withdrawal Policy (with drop date):

If you are unable to complete this course, it is your responsibility to withdraw formally. The withdrawal request must be received in the Registrar's Office by **November 13, 2008**. Failure to do so will result in your receiving a performance grade, usually an "F." Students often drop courses when help is available that would enable them to continue. Please discuss your plans with your instructor if you feel the need to withdraw.

If you drop a class or withdraw from the college before the official drop/withdrawal deadline, you will receive a "W" (Withdraw) in each class dropped.

STOP BEFORE YOU DROP

For students who enrolled in college level courses for the first time in the Fall of 2007, Texas Education Code 51.907 limits the number of courses a student may drop. You may drop no more than 6 courses during your entire undergraduate career, unless the drop qualifies as an exception. Your campus counseling/advising center will give you more information on the allowable exceptions.

Remember that once you have accumulated 6 non-exempt drops, you cannot drop any other courses with a "W." Therefore, please exercise caution when dropping courses in any Texas Public Institution of higher learning, including all seven of the Dallas County Community Colleges. For more information, you may access: <https://www1.dcccd.edu/6drop>

Grading Scale:

Evaluation Procedures:

Late Work Policy:

Makeup Exam Policy:

Cell phones, electronic devices and pagers:

Students are expected to turn off all cell phones, electronic devices and pagers during class time.

Instructor Attendance Policy:

Students are expected to attend all classes. Students have the responsibility to attend class and to consult with the instructor when an absence occurs. If for some reason you must leave class early, you should inform the instructor prior to the start of class of your reason for leaving early.

Students must begin attendance in all classes of enrollment. No exceptions. Financial Aid will not be granted to students who have been certified as not attending, by the certification date. For this lecture course, your physical participation in class, on or before the certification date will allow you to receive credit for FA purposes. For certification dates, check with the division or FAO for further information. Students, who are not certified as beginning class, are responsible for any payments due as a result of non-certification, to include the dropping of courses.

Repeating This Course:

Effective for Fall Semester 2005, the Dallas County Community Colleges will charge additional tuition to students registering the third or subsequent time for a course. This class **may not** be repeated for the third or subsequent time without paying the additional tuition. Third attempts include courses taken at any of the Dallas County Community Colleges since the Fall 2002 semester. More information is available at: https://www1.dcccd.edu/cat0506/ss/oeq/third_attempt.cfm .

Financial Aid:

Students must begin attendance in all classes of enrollment. No exceptions. Financial Aid **will not** be granted to students who have been certified as not attending by the certification date. For this lecture class, your physical participation in class, on or before the certification date, will allow you to receive credit for FA purposes. For certification dates, check with the division or FAO for further information. Students, who are not certified as beginning class, are responsible for any payments due as a result of non-certification, to include the dropping of courses. Students who are receiving any form of financial aid should check with the Financial Aid Office prior to withdrawing from classes. Withdrawals may affect your eligibility to receive further aid and could cause you to be in a position of repayment for the current semester. Students who fail to attend or participate after the drop date are also subject to this policy.

If you are receiving financial aid grants or loans, you must begin attendance in all classes. Do not drop or stop attending any class without consulting the Financial Aid Office. Changes in your enrollment level and failing grades may require that you repay financial aid funds.

The Texas Success Initiative (TSI)

The Texas Success Initiative (TSI) is a statewide program designed to ensure that students enrolled in Texas public colleges and universities have the basic academic skills needed to be successful in college-level course work. The TSI requires assessment, remediation (if necessary), and advising of students who attend a public college or university in the state of Texas. The program assesses a student's basic academic skills in reading, writing, and math. Passing the assessment is a prerequisite for enrollment in many college level classes. Students who do not meet assessment standards may complete prerequisite requirements by taking developmental courses in the deficient area and passing them with a grade of C or higher. Additional information is available at https://www1.dcccd.edu/cat0506/admiss/tsi_requirements.cfm .

Academic Honesty:

Academic honesty is expected, and integrity is valued in the Dallas County Community Colleges. Scholastic dishonesty is a violation of the Code of Student Conduct. Scholastic dishonesty includes, but is not limited to, cheating on a test, plagiarism, and collusion. As a college student, you are considered a responsible adult. Your enrollment indicates acceptance of the DCCCD Code of Student Conduct published in the DCCCD Catalog. More information is available at <https://www1.dcccd.edu/cat0406/ss/code.cfm> .

ADA Statement:

Mountain View College and the Office of Special Services are committed to upholding the laws and the spirit of Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act (ADA) signed in 1990.

Religious Holidays:

Absences for observance of a religious holy day are excused. A student whose absence is excused to observe a religious holy day is allowed to take a make-up examination or complete an assignment within a reasonable time after the absence.

Disclaimer Reserving Right to Change Syllabus:

The instructor reserves the right to amend this syllabus as necessary.

Inclement Weather Statement:

In the event of severe weather conditions, please listen to local radio or television stations for information concerning official closing of Mountain View College facilities. You can also call the inclement weather hotline at 214-860-8888, or check for updates on this web site. Decisions for evening classes will be made by 4:00 pm.