

University of North Texas at Dallas
Spring 2016
SYLLABUS

MATH 1600-001

TRIGONOMETRY: 3 Hrs.

**Department of Mathematics and
Information Sciences**

Division of Liberal Arts and Life Sciences

Instructor Name: Vinod Arya
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Office Hours: MW 1:00 pm – 2:30 pm, TR: 10:00 pm - 11:30 am. **Other Hours:** By appointment.

Virtual Office Hours: None

Classroom Location: DAL 2-241

Class Meeting Days & Times: TR: 11:30 am – 12:50 pm.

Course Catalog Description: Trigonometry based on both right triangles and the unit circle: graphs of trigonometric functions; inverse trigonometric functions; trigonometric identities and equations; laws of sines and cosines; polar coordinates; De Moivre's theorem; vectors. Prerequisite(s): MATH 1100 with a grade of C or better.

Co-requisites: None

Required Code: MyMathLab software. (www.mymathlab.com). **Course Code: arya85008**

Reference Text: Trigonometry. Robert F. Blitzer. ISBN-10: 0321795911 • ISBN-13: 9780321795915
©2014 • Pearson.

Access to Learning Resources: UNT Dallas Library: phone: (972) 780-3625; web:
<http://www.unt.edu/unt-dallas/library.htm> UNT Dallas
Bookstore: Phone: (972) 780-3652; e-mail:
1012mgr@fhcg.follett.com

Course Goals or Overview:

This course addresses the core objectives of critical thinking skills, communication skills, and empirical and quantitative skills

1. Critical Thinking Skills – to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information
2. Communication Skills – to include effective development, interpretation and expression of ideas through written, oral and visual communication
3. Empirical and Quantitative Skills – to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions

Student Learning Outcomes:

Upon a successful completion of this course the students will

- 1 Gain awareness of fundamental concepts of functions and other concepts necessary for learning calculus, and be able to demonstrate their knowledge by solving various pre-calculus problems.

- 2 Be able to solve applied mathematics problems which require both analytical and numerical reasoning.
- 3 Be able to locate, evaluate and organize information and express the conclusion in mathematical topics in pre-calculus level.
- 4 Be able to think critically and creatively so as to apply different systems of analysis, algebraic and numerical, and then to compare their results from the two systems.
- 5 Acquire problem solving skills that incorporate multiple viewpoints and different contexts in their analysis.
- 6 Acquire intellectual curiosity and self-responsibility building a foundation for a life-long learning.
- 7 Be able to read, write and manipulate mathematical phrases according to mathematical grammar.
- 8 Be able to read and write mathematical sentences according to mathematical grammar.

Tentative Course Outline

This schedule is subject to change by the instructor. Any changes to this schedule will be communicated by announcement in class and/or email.

SECTIONS	TIMELINE (WEEK)
Introduction // 1.1, 1.2	I
1.3, 1.4	II
2.1, 2.2	III
2.3, 2.4	IV
Review and Exam I	V
3.1, 3.2	VI
3.2, 3.3	VII
3.3, 3.4	VIII
3.4, 3.5	IX
4.1, 4.2	X
Review and Exam 2	XI
4.3, 4.4	XII
5.1, 5.2, 5.3	XIII
5.4, 5.5	XIV
Review and Final Exam	XV, XVI

Quizzes and Exams

The dates for the Quizzes and Exams will be announced several days in advance by employing one or more of the following means. 1. In class, 2. Via email, and 3. On the Blackboard.

Course Evaluation Methods

This course will utilize the following instruments to determine student grades and proficiency of the learning outcomes for the course.

Grading Matrix:

Instrument	Value (points or percentages)	Total
Homework/Quiz	40%	40%
Two Tests	@ 20% each	40%
Comprehensive Final Exam	20%	20%
Total:		100%

Grade Determination:

- A = 90% or better
- B = 80 – 89 %
- C = 70 – 79 %
- D = 60 – 69 %
- F = less than 60%

University Policies and Procedures

Students with Disabilities (ADA Compliance):

The University of North Texas Dallas faculty is committed to complying with the Americans with Disabilities Act (ADA). Students' with documented disabilities are responsible for informing faculty of their needs for reasonable accommodations and providing written authorized documentation. For more information, you may visit the Office of Disability Accommodation/Student Development Office, Suite 115 or call Laura Smith at 972-780- 3632.

Student Evaluation of Teaching Effectiveness Policy: *The Student Evaluation of Teaching Effectiveness (SETE) is a requirement for all organized classes at UNTD. This short survey will be made available to you at the end of the semester, providing you a chance to comment on how this class is taught. I am very interested in the feedback I get from students, as I work to continually improve my teaching. I consider the SETE to be an important part of your participation in this class.*

Tests/Exams Policy:

Exams (tests) should be taken as listed above in Course Outline. No extensions for the exams (tests) will be allowed except for documented emergencies.

Academic Integrity:

Academic integrity is a hallmark of higher education. You are expected to abide by the University's code of Academic Integrity policy. Any person suspected of academic dishonesty (i.e., cheating or plagiarism) will be handled in accordance with the University's policies and procedures. Refer to the Student Code of Academic Integrity at <http://www.unt.edu/unt-dallas/policies/Chapter%2007%20Student%20Affairs,%20Education,%20and%20Funding/7.002%20Code%20of%20Academic%20Integrity.pdf> for complete provisions of this code.

In addition, all academic work submitted for this class, including exams, papers, and written assignments should include the following statement:

On my honor, I have not given, nor received, nor witnessed any unauthorized assistance that violates the UNTD Academic Integrity Policy.

Bad Weather Policy:

On those days that present severe weather and driving conditions, a decision may be made to close the campus. In case of inclement weather, call UNT Dallas Students are encouraged to update their Eagle Alert contact information, so they will receive this information automatically.

Attendance and Participation Policy:

The University attendance policy is in effect for this course. Class attendance and participation is expected because the class is designed as a shared learning experience and because essential information not in the textbook will be discussed in class. The dynamic and intensive nature of this course makes it impossible for students to make-up or to receive credit for missed classes. Attendance and participation in all class meetings is essential to the integration of course material and your ability to demonstrate proficiency. Students are responsible to notify the instructor if they are missing class and for what reason. Students are also responsible to make up any work covered in class. It is recommended that each student coordinate with a student colleague to obtain a copy of the class notes, if they are absent.

Diversity/Tolerance Policy:

Students are encouraged to contribute their perspectives and insights to class discussions. However, offensive & inappropriate language (swearing) and remarks offensive to others of particular nationalities, ethnic groups, sexual preferences, religious groups, genders, or other ascribed statuses will not be tolerated. Disruptions which violate the Code of Student Conduct will be referred to the Office of Student Life (see Student's Rights, Responsibilities & Conduct) as the instructor deems appropriate.

Other Policies:

Use of cell Phones in the class is prohibited. No Food and Drink is allowed in the class. An Incomplete Grade "I" will be awarded only in exceptional circumstances and per university rules (see catalog). Students are responsible for meeting all university deadlines (registration, fee payment, prerequisite verification, drop deadlines etc. See university catalog and/or schedule of classes for policies and dates.