Representative MATH 1303 Syllabus

Instructor Information

This is an example of a syllabus that is typical for the class. An official syllabus will be provided by the faculty member teaching the specific section of the course for which students have enrolled.

Course Information

Section Information

[SAMPLE]

Course Description

Course Title: MATH 1303- Trigonometry

Trigonometric functions, radian measure, solution of triangles, graphs of trigonometric functions, trigonometric identities and equations, and complex numbers. This course is not intended for Science majors.

Prerequisites: C or better in MATH 1301, MATH 1302, MATH 1402, MATH 1308, MATH 1315, or a qualifying score on the Math Placement Test (ALEKS PPL).

Time and Place of Class Meetings

[SAMPLE]

This course operates on Central Time. All times listed for class meeting times, exams, and assignment deadlines are in Central Time (CT).

Classroom/Lecture Recording Policy

Faculty maintain the academic right to determine whether students are permitted to record classroom and online lectures. Recordings of classroom lectures, if permitted by the instructor or pursuant to an ADA accommodation, may only be used for academic purposes related to the specific course. They may not be used for commercial purposes or shared with non-course participants except in connection with a legal proceeding.

Recording of classroom and online lectures in this course [is/is not] allowed.

Student Learning Outcomes

By the end of this course, you will be able to:

1. Summarize and correctly apply fundamental geometric and angle concepts such as radian-degree conversion, angles in the cartesian plane, similar figures, and introductory triangle principals.
2. Successfully evaluate trigonometric statements by applying the right triangle definitions for the six trigonometric functions as well as ratios of x- and y-coordinates and distances in the Cartesian plane.

3. Develop the unit circle and correctly evaluate trigonometric functions by applying both the unit circle and reference angles.
4. Construct an accurate sketch for each of the six trigonometric functions and correctly describe any transformations.
5. Successfully identify, apply, and justify trigonometric identities.
6. Reorganize trigonometric equations by applying algebraic techniques, inverse functions, and identities to develop correct solutions to trigonometric equations.
7. Select appropriate trigonometric concepts and techniques, including right triangle trigonometric ratios, the Law of Sines, and the Law of Cosines, to produce accurate mathematical models of real-world situations and compute and justify solutions to applied problems.
8. Apply vector principles and operations to produce accurate mathematical models of real-world situations and devise and justify solutions to applied problems.

Course Materials & Technology

Textbook Information

This course is participating in a new program to provide digital course materials on or before the first day of class at a reduced cost. The cost for your digital materials will be charged to your UTA student account, and you will have access to the materials through Canvas. Course fees are associated with course registration.

1. **Digital Access and eText Bundle (Required)**: Your course materials included in the $70 course fee contain the e-version of the course text as well as MyLab course access (MyLab Math with Pearson eText for Trigonometry 12th edition), which is designed to enrich student success by providing instant feedback on your assignments plus on-demand access to personalized study plans, a multimedia library, practice tests, and more.
   (COST: $70, included in your course fees)

For more information about this program, please see the Course Resources page in your Canvas course. For further questions, contact your campus bookstore at uta@bkstr.com or 817-272-2785

2. Student Workbook: Guided notetaking and example problems to support your time spent in class. Trigonometry Student Workbook, 1st edition, Glass, Van-Griner Publishing, 2023. ISBN: 978-1-64565-266-3 (COST: $30.75)

Technology & Equipment Requirements

1. **Scientific Calculator**: You may use a scientific calculator from the list below.
   Texas Instruments: TI-30Xa, TI-30 XIIS, TI-30 XIIB, no other models are allowed
   (COST: dependent upon your calculator model, but typically within the range of $10 - $20
2. **Web-Enabled Device**: Use your smartphone, tablet, laptop, or another device to check in at lectures for required attendance. Index cards may be used as a back-up.
3. The chapter exams and final exam will be in a pencil/paper format and require a scantron Form No. SC 882-e.

4. Additional materials for this course may range in cost depending on the project and or topic you choose to work on.

Visit the OIT Services page for a list of Applications and Software available through UTA.

Visit the UTA Libraries Technology page for a list of items that can be checked out or used at the library.

Assignments & Exams

Homework and Quizzes

All homework and quizzes will be assigned using MyLab. All homework assignments are available to you on the first day of classes and quizzes will be made available as the semester progresses. The automated system will provide feedback on assignments immediately upon submission.

- There is a homework assignment covering each section of material and several content quizzes. Homework assignments are set for unlimited access up until the due date. You may complete homework assignments a question at a time, and you have 3 attempts per question. However, you only have two attempts at each quiz which have a 60-minute time limit and must be completed in their entirety once opened. Quizzes cannot be saved and resumed later.
- All homework assignments contain some learning aids to help you through the material. Be careful not to become overly dependent on these aids, or you may not perform well on the exams. You have multiple chances at a question per attempt. To gain access to the next attempt once a question is marked wrong, simply select the "similar exercise" button at the bottom of the homework screen. Quizzes are designed to check your knowledge retention and therefore do not contain learning aids except in review mode once the quiz has been submitted.
- If you have trouble completing the assignments, please seek some form of tutoring and/or see your instructor for assistance. Mozilla Firefox and Google Chrome are the recommended and supported browsers for this course.

Signature Assignment

The Signature Assignment will consist of an essay and video submission. Details of this assignment will be made available in Canvas.

The Signature Assignment will assess the following skills:

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

Unit Exams

Exam Dates: All exam dates (other than the final exam) are tentative and may be adjusted at the discretion of the instructor. Any changes to this schedule will be announced at least two weeks in advance.

Exam #1 – TBD, on campus, during class time

Exam #2 – TBD, on campus, during class time

Exam #3 – TBD, on campus, during class time

Final Exam – First Saturday following the last day of class, 9 – 11:30 AM, on campus

All unit exams will be held on campus and align with the lecture time. There will be three midterm exams during class times throughout the semester. The exams will be in a pencil/paper format and require a scantron. (Form No. SC 882-e)

- LATE ARRIVAL POLICY:

  Chapter Exam for 50-minutes class: Students arriving more than 20 minutes late for an exam will be turned away.

  Chapter Exam for 80-minutes class: Students arriving more than 30 minutes late for an exam will be turned away.

- You may use an approved calculator (see list of approved calculators in Materials section), approved formula page, and blank scratch paper which will be provided. No additional materials are allowed.
- You must have your MavID with you on exam day.
- You may not leave the room during an exam.
- Use of any unauthorized electronic devices or notes during an exam will result in a grade of ZERO.

Final Exam

The final exam will be held on campus and will align with the departmental exam schedule. This is a cumulative exam containing material from all sections covered up to the date of the exam. The exam will be in a pencil/paper format and require a scantron Form No. SC 882-e. The final exam will take place on **the first Saturday following the last day of class with location TBA.**

- LATE ARRIVAL POLICY: Students arriving more than 1 hour late for the final exam will be turned away.
- You may use an approved calculator (see list of approved calculators in Materials section), approved formula page, and blank scratch paper which will be provided. No additional materials are allowed.
- You must have your MavID with you on exam day.

- You may not leave the room during an exam.
- Use of any unauthorized electronic devices or notes during an exam will result in a grade of ZERO.

Grading Information

Assignments	Values (%)
Attendance	5%
Homework	10%
Quizzes	10%
Signature Assignment	5%
Unit Exams (Average of 3 exams)	50%
Comprehensive final exam	20%
	Total: **100%**

Students are expected to track their performance throughout the semester, which Canvas facilitates, and seek guidance from available sources, including the instructor, if their performance drops below satisfactory levels. Refer to the Student Support Services section below.

IMPORTANT: The grade calculation, as shown above, is not reflected in MyLab. Please refer to the Grades page in Canvas only for your correct course average.

Final Grade Calculations

Percentages	Letter Grade
90-100%	A
80-89%	B
70-79%	C
60-69%	D
Below 60%	F

Grading Standards

Typically, you must earn a letter grade of C or higher to pass this class. However, check with your home department (major) for guidelines and grade requirements.

Late Work Policy

- **A 24-hour grace period is enabled for all homework, quiz and signature assignments. You can submit homework and quiz assignments up to 24 hours past any due date listed. Beyond this grace period, NO late homework or quizzes will be accepted,** so watch the due dates on the calendar. You will receive a zero for any assignments not submitted.

Make-Up Exams Policy

If you have a conflict with a scheduled exam due to a school-sponsored or excused event, it is your responsibility to inform me, and you MUST have documentation. To request an alternate exam date because of an approved conflict, please fill out the Alternate Exam Date Request Form which is provided upon request. You must either submit the forms directly to me during class or office hours

or email the form along with the necessary documentation at least TWO weeks before the exam date. A request for a rescheduled exam will only be considered in rare, documentable, and verifiable instances. The decision to grant an alternate exam date will be at the sole discretion of the instructor and/or course coordinator.

Extra Credit Policy

- At the end of the semester, TWO of your lowest homework grades will be automatically dropped and ONE low quiz grade will be dropped.
- At the end of the semester, your final exam grade may be used to replace ONE low midterm score.

Grade Grievance Policy

Any appeal of a grade in this course must follow the procedures and deadlines for grade-related grievances as published in the current University Catalog: Grades and Grading Policies. If you experience a conflict with your instructor, first try and resolve the matter with your instructor. For issues that remain unresolved after this contact, including grade discrepancies or complaints, a grievance may be filed with the Mathematics Department by completing the departmental Grievance form at https://go.uta.edu/mathgrievance. Students not satisfied with the departmental decision may appeal to the College of Science. It is imperative for students to follow the proper procedure for their grievances to be reviewed.

Course & University Policies

Attendance Policy

Students should review the University Class Attendance Policies on the Class Attendance Policies page. The following attendance policy will be applied in this course.

As the instructor of this section, attendance for this course will be monitored using the Attendance+ app on Canvas. Each class day, your instructor will provide a unique code that you must submit to receive attendance credit for that day. **By submitting the code, you confirm your in-person attendance for the entire class session.** If you intend to leave early, do not submit the attendance code for that day unless you have permission from your instructor. Random attendance checks can occur at any time throughout the semester. Any student who submits an attendance code but is absent during a random attendance check will be reported for a code of conduct violation and will receive a zero for semester attendance. Do not share attendance codes with others or post them online. Any student found doing so will also be reported for a code of conduct violation and will receive a zero for semester attendance.

Institutional Policies

UTA students should review the University Catalog and the Syllabus Institutional Policies page for institutional policies and contact the specific office with any questions. The institutional information includes the following policies, among others:

- Drop Policy

- Disability Accommodations
- Academic Integrity
- Electronic Communication

UTA Honor Code

UTA students are expected to adhere to and observe standards of conduct compatible with the University's functions as an educational institution and live by the University of Texas at Arlington's Honor Code. It is the policy of The University of Texas at Arlington to uphold and support standards of personal honesty and integrity for all students consistent with the goals of a community of scholars and students seeking knowledge and responsibility.

Student Support Services

Student Services Page

The Student Services page provides links to many resources available to UTA students, including:

- Academic Success
- Counseling and Psychological Services (CAPS)
- Health Services
- Students with Disabilities
- Veteran Services

Students are also encouraged to check out Career Center resources to enhance their career-readiness, find student employment, search for internships, and more. We encourage Major Exploration and the use of Experiential Major Maps to keep students on track for graduation. Refer to the Graduation Help Desk for more details.

Online Academic Success Guide

Visit the Online Academic Success Guide to explore a list of helpful tips and resources to help you succeed in your online journey.

SEE NEXT PAGE FOR COURSE SCHEDULE

Course Schedule

Week	Topics	Assignments Due
1	Review of Triangles and Their Properties (SLO 1) Angle Relationships and Degree Measure / Introduction to Right Triangle Trigonometry (SLO 1, 2)	
2	Angles in the Coordinate Plane (SLO 2) Introduction to Trig Identities (SLO 5)	
3	Evaluating Trig Functions using Reference Angles(SLO 3) Applications of Right Triangles(2,6,7)	
4	**Exam 1: Chapters 1 and 2 (TENTATIVE - Subject to Change)** **Applicable Student Learning Outcomes: 1,2,3,5,6,7** Radian Measure (SLO 1)	
5	The Unit Circle (SLO 3) Applications Involving Radian Measure(SLO 1, 7)	
6	Graphing Sine and Cosine (SLO 4) Translating Sine and Cosine (SLO 4)	
7	Graphing Other Trigonometric Functions (SLO 4) Review of Fundamental Trigonometric Identities (SLO 5)	
8	Verifying Trig Identities (SLO 5) Sum and Difference Identities (SLO 5)	
9	Double-Angle Identities and Half-Angle Identities (SLO 5) **Exam 2 Review**	
10	**Exam 2: Chapters 3, 4, and 5 (TENTATIVE - Subject to Change)** **Applicable Student Learning Outcomes: 1,2,3,4,5,6,7** Inverse Trigonometric Functions (SLO 6)	
11	Solving Trigonometric Equations (SLO 6) The Law of Sines (SLO 7)	
12	The Law of Cosines (SLO 7) Introduction to Vectors (SLO 8)	
13	Vector Operations (SLO 8) **Exam 3 Review**	
14	**Exam 3: Chapters 6 and 7 (TENTATIVE - Subject to Change)** **Applicable Student Learning Outcomes: 1,2,3,4,5,6,7,8** **Review/Prep for Final**	
15	Review/Prep for Final	
	FINAL EXAM **Applicable Student Learning Outcomes: 1,2,3,4,5,6,7,8**	

As the instructor for this course, I reserve the right to adjust this schedule in any way that serves the educational needs of the students enrolled in this course. – First Last