

Master Course Syllabus Outline

Department: Mathematics

Course Prefix/Number: MATH109 now MATH 1316

Course Title: Trigonometry

Master Syllabus Approved by Department on: 1 / 12 / 2009
month day year

- I. Catalog Description: Angles and coordinates, trigonometric functions, solutions of triangles and applications, reduction theorems and formulas, identities and conditional equations, addition formulas and derived relations, angular and linear speed, logarithms, and radian measure. Prerequisite: MATH 107 or concurrent registration. Course fee \$10.
- II. Prerequisite: MATH 107 or concurrent registration.
- III. Expanded Course Description: Angles in standard position and similar triangles, definition of the six trigonometric functions and basic applications, using the definitions, functions of acute angles, use of reference angles for non-acute angles, solving right and oblique triangles and applications, radian measure and circular functions, graphs of the trigonometric functions, fundamental identities, sum and difference identities, half angle identities, verification of identities, trigonometric and inverse trigonometric equations, vector operations and applications, complex numbers in trigonometric form, and DeMoivre's formulas for powers and roots.
- IV. Intended Student Outcomes: Students who successfully complete this course will be expected to:
 - a. Solve problems involving radian measure.
 - b. Solve problems involving graphs of trigonometric functions.
 - c. Solve problems using trigonometric identities.
 - d. Solve problems involving inverse trigonometric functions.
 - e. Solve problems by applying trigonometric methods to vectors.
 - f. Solve problems involving trigonometric forms of complex numbers.
- V. Unless otherwise stipulated in this master syllabus by the department, the following items are subject to faculty discretion as described in each faculty member's individual course outline/syllabus:
 - a. Grading/evaluation procedures
 - b. Class attendance policy
 - c. Grading/evaluation procedures
 - d. Classroom conduct policy
 - e. Class participation
 - f. Special projects
 - g. Special papers
 - h. Homework assignments
 - i. Quizzes
 - j. Examinations
 - k. Required textbook(s)
 - l. Other requirements deemed appropriate by the faculty member

MATH 1316 – Trigonometry
Fall 2019

Specific Course Syllabus

Instructor: Dr. Peter W. White
Phone #: 968-1982
Math Office #: 968-9168

Office: MATH 331
e-mail: white@tarleton.edu
Office Hours: MTWRF 9-9:50 am,
or by appointment.

University Policy: Students are responsible for knowing and abiding by the policies and information contained in the Tarleton Student Handbook.[TSUSH]

Student Responsibilities: The student is *solely* responsible for:

- Completing each assignment by the specified due date.
- Obtaining assignments and other materials for classes from which they are absent.
- Utilizing, as needed, all available study-aid options (including meeting with the instructor, purchasing a student's solutions manual, referring to outside texts, etc.) to resolve any questions that they might have regarding homework, course material, and/or technology projects.
- Giving as much of an effort as it takes to pass this course.

Academic Conduct: Students guilty of academic dishonesty, cheating, or plagiarism in academic work shall be subject to disciplinary action.[TSUSH] The instructor may initiate disciplinary action in any case of academic misconduct.

Services for Students with Disabilities: *It is the policy of Tarleton State University to comply with the Americans with Disabilities Act and other applicable laws. If you are a student with a disability seeking accommodations for this course, please contact the Center for Access and Academic Testing, at 254.968.9400 or caat@tarleton.edu. The office is located in Math 201. More information can be found at www.tarleton.edu/caat or in the University Catalog.*

Absence Policy: Class absence policies will be established and enforced by each individual course instructor. The course instructor may recommend to the Dean of Students that a student be dropped from a course if excessive absences prevent satisfactory progress.[TSUSH]

Makeup Policy: Each course instructor has the responsibility and authority to determine if work can be made-up because of absences.[TSUSH] Students may request make-up considerations for valid and verifiable reasons such as the following:

- Illness
- Death in the immediate family
- Legal proceedings
- Participation in sponsored University activities (It is the responsibility of students who participate in University-sponsored activities to obtain a written explanation for their absence from the faculty/staff member who is responsible for the activity.)

Drop Policy: A student who withdraws from a course before the thirteenth class day of a regular semester or before the fifth class day in a summer term receives no grade, and the course will not be listed on that student's permanent record. A student who withdraws from a course before the end of the tenth week of a regular semester or the fourteenth class day of a summer term receives a grade of W.[TSUCAT]

Calculator Policy: Students may be allowed to use an approved graphing calculator when taking this course. During the administration of a test, the use of calculators may be restricted, at the discretion of the instructor. Students may also be restricted to the use of a calculator that does not have course notes stored in the memory.

The instructor reserves the right to examine and delete material from the memory of a student's calculator before approving its use on an exam.

Tutoring: *The Tutoring and Learning Center (TLC) offers free tutoring for Tarleton State University students. Tutors help clarify concepts introduced in class and will help you become an independent learner. Our tutors are selected based on their academic performance and interpersonal skills and receive training each semester to become certified tutors. Tutoring sessions include one to three students per one-hour session and are held in designated locations in the Library and online. To schedule tutoring sessions, stop by the Dick Smith Library Learning Commons, Room 155 or call 254-968-9293. For more information email our office at tutoring@tarleton.edu or visit the Tutoring and Learning Center online at tarleton.edu/tlc.*

The Math Clinic located on the second floor of the Mathematics building near the south stairwell is another good source for free tutoring. Walk-ins are welcome.

Text: "Trigonometry" by Lial, Hornsby, Schneider and Daniels, 11th edition. (No Mymath)

Attendance Policy: The students will be held responsible for material presented in class. Late work will not be accepted without a university recognized excuse or prior arrangement between the student and instructor.

Homework Policy: Exercises from the end of the sections will be assigned and due-dates will be given in class or via the web. Homework will be graded for completeness and correctness. Ten points will be assigned based on completeness and ten points for correctness (of a subset of problems) on each section.

Quizzes: Not likely, but possible if deemed necessary by the instructor. Quizzes will take the place of the homework for that day.

Grading Policy: The student's grade will be based on homework taken from the problem sets at the end of each section covered, four in-class exams and a comprehensive final exam (see course calendar for exam dates).

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| Homework | 100 pts | | A | 540-600 pts |
| Four Exams | 400 pts | | B | 480-539 pts |
| Final Exam | 100 pts | | C | 420-479 pts |
| | | | D | 300-419 pts |
| Total | 600 pts | | F | 0-299 pts |

Notes:

- In the event that the university is closed for a scheduled class time, whatever was scheduled for that day and/or whatever was due that day will be scheduled and/or due on the next scheduled class time.
- You are expected to present a valid TSU ID upon request.
- **All items contained in this syllabus are subject to change as the semester progresses. Students will be notified in advance of any changes.**