

Trigonometry Syllabus for MA104
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Text: Trigonometry, 5th edition, 2004, McKeague & Turner, publisher: Thomson

Course Description: Trigonometry is a branch of mathematics that deals mostly with triangles and trigonometric functions. However, it also entails the study of circles and waves. In this course students will become familiar with concepts including the six trigonometric functions, solving right triangles, making measurements in radians, the laws of Sines and Cosines, and polar coordinates.

Prerequisites: Successful completion of Algebra II (B or higher) and/or College Algebra (B or higher) or recommendation of instructor.

Equipment required: Scientific calculator throughout course; graphing calculator(TI-83Plus)for Chapter 4

Course Material to be covered:

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

Homework for each chapter will be collected on the date indicated on the course outline. Since it is graded, **all work must be shown for credit**, neatly completed in pencil, and each page labeled with the section & student's name. No late assignments will be accepted. All students are expected to do their own work. Even when working in groups, students are responsible for independently reporting their results. **ANY case of academic dishonesty** as defined in the CMU student handbook will result in a zero on the assignment/quiz/exam and could result in failing and/or expulsion from the course.

It is YOUR responsibility to inform your instructor if you will have to miss class and to make arrangements PRIOR to your absence for turning in homework or taking a quiz/exam.

Time spent on each topic varies with the difficulty of the concept. Quizzes will be worth 75 points each, tests 150 points (CH1/2, CH3/4, CH5/6, CH7/8) each, homework odd chapters 35 points each & even chapters 45 points each (includes reviews), participation 1/2 point per day, and the final 200 points. **The lowest quiz score will be dropped** at the end of the course for a total of 1910 points possible.

This is a dual credit course receiving 2 hours of college credit and also high school credit.

College credit will be earned as follows:	90 – 100%	A	60 – 69%	D
	80 – 89%	B	Below 60%	F
	70 – 79%	C		

Point Breakdown:	% of grade	Total points
Tests 4@150	31.4%	600
Quizzes 10@75	39.3%	750
Homework 4@35,4@45	16.8%	320
Participation	2.1%	40
Final Exam	<u>10.4%</u>	<u>200</u>
TOTAL	100 %	1910 points