

COURSE: MAC 1114 Trigonometry

INSTRUCTOR: Mr. McGuckian [Pronounced (Mick-Guck-in)]

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OFFICE HOURS: Mondays before and after class or by appointment

TEXT: *Algebra and Trigonometry, twelfth edition, Swokowski, Cole (optional)*

DESCRIPTION: This course, in conjunction with MAC 1140, is designed to prepare the student for the study of Calculus. Topics include a functional approach to trigonometry; trigonometric equations; trigonometric identities; solving triangles; DeMoivre's Theorem; vectors; polar coordinates; and parametric equations. Prerequisite: MAC 1105

OUTCOMES: The students should be able to define, apply, and graph the trigonometric functions. The students should be able to define, apply, and graph the inverse trigonometric functions. The students should be able to verify trigonometric identities and solve trigonometric equations. The students should be able to solve right and oblique triangles. The students should be able to manipulate complex numbers in trigonometric form and use DeMoivre's theorem to find nth roots and powers of complex numbers.

EXAMS: There will be four exams and a semi-cumulative final exam (all equally weighted). A missed exam will result in a zero for that exam. There are **NO** make up exams, and everyone must take the final.

MATERIALS: Students should have a TI-83 graphing calculator for the course; scantrons will also be necessary for some exams.

GRADING: Five exams will make up your overall grade: A = 500-450, B = 449-400, C = 399-350, D = 349-300, F = 299-0 (a C or higher is considered passing)

EMERGENCY #: (954) 201 - 4900

RESOURCES: For extra help, the Math Lab is an excellent place to get help with your homework. Also, the LRC in the library offers one hour per week of free tutoring.

ATTENDENCE: To be successful in this course and in college you must be in class. Perfect attendance is recommended, and missed work will result in a zero for the assignment. Simply put: **COME TO CLASS.**

DISHONESTY: Any form of cheating or academic dishonesty is strictly forbidden in this class. If I find out that an assignment or exam turned into me is not the work of the sole person that has his/her name at the top of the page, I will issue a zero grade for the course.

ATTEMPT POLICY: There is a limit of 3 attempts for this course, including the original grade, repeat grades, audits, and withdrawals. Upon the third attempt, you will not be permitted to withdraw and will receive a grade for the course.