COURSE: MAC 1140   Pre-Calculus

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

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OFFICE HOURS: 5:30 – 6:00 in 52/102 T/R or by appointment

TEXT: *Algebra and Trigonometry with Analytic Geometry, Twelfth Edition;* Swokowski, Cole; Thompson; Brooks/Cole

DESCRIPTION: This course, in conjunction with MAC 1114, is designed to prepare the student for the study of Calculus. Topics include sequences, series, mathematical induction, matrices, determinants, and systems of equations. Also included are polynomial, rational, exponential, and logarithmic functions and equations; and polynomial and rational inequalities. Functions and graphs are emphasized. Prerequisite: MAC 1105

OUTCOMES: The students should be able to identify and graph polynomial, rational, and other algebraic functions. The students should be able to find the zeros of polynomial functions, solutions to polynomial and rational inequalities, and the partial fraction decomposition of rational expressions. The students should be able to identify, graph, and solve exponential and logarithmic equations. The students should be able to graph conic sections. The students should be able to perform matrix operations and apply the theory and techniques used in solving systems of equations and inequalities. The students should be able to apply properties of sequences and series, mathematical induction, and binomial theorem.

EXAMS: There will be three exams and a 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 must have a TI-83 graphing calculator for the course; scantrons will also be necessary for some exams.

GRADING: Four exams will make up your overall grade: A = 400-358, B = 357-318, C =317-278, D = 277-238, F = 237-0   (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.