

SYLLABUS FOR MA 105, COLLEGE ALGEBRA

MA 105 Fall, 2002 Dates: 8/26/02 -12/15/02

Time: 12:00 - 12:50 A.M., Monday, Tuesday, Wednesday, Thursday

Place: West Science 1706.

Instructor: Hal Martin, Science Center, 3011. Office phone: 227-1591.

Office Hours: To be announced.

Text: College Algebra by Barnett, Ziegler, and Byleen

Material to be Covered: The core of the course consists of the material in Chapters 1 through 4. These chapters cover the following. The function concept and the concept of the graph of a function (Chapter 1). Linear and quadratic functions (Chapter 2). Polynomial and rational algebraic functions (Chapter 3). Inverse functions, logarithmic and exponential functions (Chapter 4). The understanding of mathematical concepts will be stressed, and this includes how mathematical ideas are used in applications. Understanding the nature of the graph of a function will also be stressed. Besides this core material, other concepts will be covered as well. Some topics will be selected from the remaining chapters, Chapters 5 through 7, and some additional concepts connected with the material in Chapters 1 through 4 will be presented by way of hand-outs. Two concepts of particular importance for polynomials will be presented: the idea of the derivative of a polynomial and the related idea of the anti-derivative of a polynomial. Also, we will learn how to solve cubic equations (by hand so we actually understand what is going on). And we will look briefly at the trigonometric functions; very briefly.

Exams: There will be five 50-minute exams and a two hour final during exam week. The exams will be given (tentatively speaking) at the end of the second, fourth, seventh, tenth, and thirteenth weeks.

Attendance: Required. Unexcused exams will not be made up.

Grading: The lowest hourly exam grade will be dropped. The final exam counts for 33%. (But, if the final exam grade is lower than the lowest hourly exam grade, then none of the hourly exam grades will be dropped and the final exam grade will count 20%.) With respect to letter grades, 93-100 is an A, 90-92 an A-, 87-89 a B+, 83-86 a B, 80-82 a B-, 77- 79 a C+, 73-76 a C, 70-72 a C-, 64-69 a D+, 56-63 aD, 50-55 a D-, and 0-49 an F. These are minimums. A curve might be applied at the end of the course.

Disabilities: If you have a need for disability related accommodations or services, please inform your instructor or the Office of Student Support and Disability Services at 405 Cohodas (Phone 227-1550, TDD: 227-1543). Reasonable and effective accommodation and services will be provided to students if requests are made in a timely manner, with appropriate documentation, in accordance with federal, state and university guidelines.