

1056-Z1-80

Santanu Chakraborty* (schakraborty@utpa.edu), Department of Mathematics, University of Texas - Pan American, 1201 West University Drive, Edinburg, TX 78539. *A Basic College Level Mathematics course for a lay man knowing only four basic operations with nonnegative integers.*

This talk is intended to describe a future course in Mathematics. The target students for this four-credit hour course are the Liberal Arts students for whom some basic knowledge of mathematics is just good enough. The course will cover most of the topics in Elementary, Intermediate and College Algebra and Pre-calculus - namely, nonnegative integers, fractions, decimals, percentages, basic geometry, integers, rational and real numbers, basic algebra, exponents, polynomials, linear, quadratic and polynomial equations and inequalities, their graphs, matrices, conic sections, functions, logarithmic, exponential and trigonometric functions, sequences and series, mathematical induction, counting techniques and some basic probability and statistics. The aim is to make the students familiar with as many important mathematical topics as possible without going in to much depth. The speaker has a lesson plan to be presented in the talk that accomodates all these topics. The course will only include the simplest possible exercises in each and every topic. The distant aim is to make it a core course so that the Liberal Arts students do not have to go through the painful rounds of remedial non-credit courses. (Received July 22, 2009)