KING FAHD UNIVERSITY OF PETROLEUM & MINERALS
College of Sciences, Prep-Year Math Program
SYLLABUS
MATH 001 (042)

Pre-Requisite	HIGH SCHOOL ALGEBRA
Textbook	College Algebra & Trigonometry by Aufmann /Barker/Nation, 4th Edition, Houghton Mifflin, (2002)
Objectives	The students are expected: to comprehend the material of this course. to improve their computational skills in basic Algebra and Trigonometry to demonstrate their writing ability in Mathematics with logical steps. Please note that the medium of instruction will be strictly ENGLISH from the first <u>day of classes.</u>

Week #	Date	Text Sections	Topic	Homework Problems
1	Feb. 12-16	P-1	The Real Number System	1,5,12,24,33,36,48,52,61,64
		P-2	Intervals, Absolute Value and Distance	13,26,36,57,60,69,78,86,99
2	Feb. 19-23	P-3	Integer and Rational Number Exponents	22,31,39,50,78,85,94,103,112,127,136
3	Feb. 26-Mar.2	P-4	Polynomials	6,16,22,29,48,50,60,73,84
		P-5	Factoring	8,18,22,38,44,50,56,67,74,80
4	Mar. 5-9	P-6	Rational Expressions	6,21,36,38,44,58,69,72
		1.1	Linear Equations	9,20,26,28,38,36,55,58,68,78
Exam I: Monday, March 7, 2005 [Chapter P]			
5	Mar. 12-16	1.2	Formula and Applications (Examples #1 and #2) and (table 1.1**) ONLY	2,11,16,19,20,21,24,25
		1.3*	Complex Numbers (pages 85-88)	30,35,42,48,113,115,118
6	Mar. 19-23	1.3	Quadratic Equations	3,12,21,62,75,80,88,104
		1.4	Other Types of Equations	……. Continued next week …..
7	Mar. 26-30	1.4	Other Types of Equations	8,12,18,27,30,39,49,58,71
		1.5	Inequalities	7,18,28,34,46,50,61,88,99,106
8	April 2-6	2.1	A Two-Dimensional Coordinate System and Graphs	6,16,22,29,43,65,71,76,90,104,107
Midterm Break			
9	April 16-20	2.2	Introduction to Functions	5,9,16,22,35,38,39,43,49,59
Suggested Time for Class Test			
10	April 23-27	2.3	Linear Functions	8,12,26,38,41,50,68,70,87
		2.4	Quadratic Functions	8,18,24,33,43,65,73,82
Exam II: Saturday, April 30, 2005 [1.1, 2.4]			
11	Apr.30- May 4	2.5	Properties of Graphs	6,12,16,28,29,56,57,59
		2.6	The Algebra of Functions	11,28,34,43,47,58,64,77
12	May 7-11	3.1	Polynomial and Synthetic Divisions	8,19,32,44,57,63,72,76
		3.2	Polynomial Functions	4,14,17,35,48,51,64
13	May 14-18	3.3	Zeros of Polynomial Functions	5,15,26,38,41,47,61,76
14	May 21-25	3.4	The Fundamental Theorem of Algebra	4,12,23,50,61,65
		3.5	Rational Functions and Their Graphs	4,18,24,44,48,67
15	May 28-31	4.1	Inverse Functions	6,10,21,37,42,51,57,64,70
	June 1	Review	Last Day of Classes	

Evaluation Policy	Exam I (MCQ): 15 points	Exam II (MCQ): 20 points	Final Exam (Comprehensive & MCQ): 35 points
	Class Work: (at least 1 written **CLASS TEST**, at least 5 **WRITTEN** quizzes, **CAL Activity, Homework, Class Attendance,** etc): 30 points		
CAL	The syllabus of the weekly CAL Classes is on the back of this sheet. CAL Questions may be asked in the Exams.		

Note # 1: A student will be awarded the GRADE "DN" after missing EIGHT classes without an OFFICIAL excuse.
It is the responsibility of the student to keep the record of his absences. Students will have ONLY 6 days to submit their excuses to the prep-year affair. (1st **warning: 3 absences; 2nd warning: 6 absences; "DN": 8 absences**)

Note # 2: To check your warnings (WEEKLY), Homework Solutions, Exam Locations, and other Math announcements,
Please visit Portable 3, Math Bulletin Board (beside PR-108), or <u>www.kfupm.edu.sa/mathprep</u>.

Note # 3: During the first week, exam week, and the final week, the CAL class will be Conducted as a regular class.

**: The students are asked to <u>memorize</u> the top 5 formulas of (table 1.1, page 72), and <u>understand</u> the bottom 5 formulas.