KING FAHD UNIVERSITY OF PETROLEUM & MINERALS

College of Sciences, Prep-Year Math Program MATH 001 SYLLABUS TERM 032

Pre-Requisite	HIGH SCHOOL ALGEBRA		
Textbook	College Algebra & Trigonometry by Aufmann /Barker/Nation, 4 th 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 day of classes.		

Week#	Date	Text Sections	Торіс	Homework Problems
1	Feb. 14-18	P-1	The Real Number System	1,6,11,24,30,36,42,58,73
2	Feb. 21-25	P-2	Intervals, Absolute Value and Distance	2,6,14,20,21,35,44,57,60,69,78,86, 100
		P.3	Integer and Rational Number Exponents	
3	Feb. 28-Mar. 3	P-3	Integer and Rational Number Exponents	8,20,42,48,54,85,90,103,111,122,127, 135
		P-4	Polynomials	15,20,33,46,52,61,67,82
4	Mar. 6-10	P-5	Factoring	7,18,25,36,44,53,57,74,83
		P-6	Rational Expressions	6,14,19,36,56,62,70
5		1.1	Linear Equations	3,11,20,26,34,36,44,52,55,70,76
	Mar. 13-17	1.2	Formulas and Applications (Examples #1 and #2) and (table 1.1**) ONLY	2,8,15,20,23,25
6	Mar. 20-24	1.3	Quadratic Equations	9,12,18,31,36,38,45,62,74,80,06,109,123
7	Mar. 27-31	1.4	Other Types of Equations	8,12,21,24,30,36,40,44,58,67
		1.5	Inequalities	7,16,19,28,34,43,62,70,86,92,96,97
		MIDTERN	I EXAM THURSDAY APRIL 1 (Chapter	P- 1.5)
8	Apr. 3-7	2.1	A Two-Dimensional Coordinate System and Graphs	15,22,29,38,43,54,65,73,84,91,106
9	Apr. 10-14	2.2	Introduction to Functions	7,9,18,21,38,39,43,49,92,
10	Apr. 17-21	2.3	Linear Functions	10,14,25,37,49,67,70,84,87
		2.4	Quadratic Functions	6,12,16,26,30,44,73,77,81
11	Apr. 24-28	2.5	Properties of Graphs	4,11,15,20,25,30,38,42,51,56,59,78
		2.6	The Algebra of Functions	5,9,25,36,47,62,75,76
12	May 1-5	3.1	Polynomial and Synthetic Divisions	4,16,21,34,43,49,59,61,70,72,75
		3.2	Polynomial Functions	5,9,37,41,46,56,64
13	May 8-12	3.3	Zeros of Polynomial Functions	4,9,17,26,37,45,76
14	May 15-19	3.4	The Fundamental Theorem of Algebra	8,20,41,46,47,57,67
		3.5	Rational Functions and Their Graphs	4,5,18,25,32,35,41,44,54,69
15	May 22-25	4.1	Inverse Functions	4,8,12,28,38,41,54,65,67
	May 26	Review	Last Day of Classes	

Evaluation	Midterm Exam (MCQ): 24 points	Final Exam (Comprehensive & MCQ): 36 points			
Policy	Class Work: (2 written CLASS TESTS, at least 4 WRITTEN quizzes, CAL Activity, Homework, Class Attendance, etc): 40				
1 01103	points				
CAL	The syllabus of the suggested CAL Problems 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 affairs					
(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 www.kfupm.edu.sa/mathprep .					

^{**:} The students are asked to **memorize** the top 5 formulas of (table 1.1,page 72) and **understand** the bottom 5 formulas .