

KING FAHD UNIVERSITY OF PETROLEUM & MINERALS
College of Sciences, Prep-Year Math Program
SYLLABUS
MATH 001 (062)

Pre-Requisite	HIGH SCHOOL ALGEBRA
Textbook	College Algebra & Trigonometry by Aufmann /Barker/Nation, 5 th Edition, Houghton Mifflin, (2005)
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	Topic	Homework Problems
1	Feb. 17-21	P-1	The Real Number System	2,5,7,15,17,25,30,34,39,42,49,53, 65,75,81,85,103,125,130
2	Feb. 24-28	P-2	Integer and Rational Number Exponents	6,12,25,28,35,38,40,48,60,68,76, 83,84,93,97,103,112,134
3	Mar. 3-7	P-3	Polynomials	8,10,14,22,28,33,40,46,52,53,61,66,86
		P-4	Factoring	6,15,18,21,26,31,35,41,45,50,53,59,61,66,78,86,92,93, 95
4	Mar. 10-14	P-5	Rational Expressions	6,9,12,20,26,36,40,45,56,62,74
		P-6	Complex Numbers	10,16,23,36,38,46,53,58,64,79
Exam I: March 17, 2007 [Ch. P]				
5	Mar. 17-21	1.1	Linear and Absolute Value Equations	6,7,21,30,32,40,43,47,62,63
		1.2	Formula and Applications (Examples #1 and #3) and (table 1.2**) ONLY	7,9,17,18,22
6	Mar. 24-28	1.3	Quadratic Equations	5,8,20,24,30,36,41,48,55,82,85
7	Mar. 31-Apr.4	1.4	Other Types of Equations	8,12,18,24,30,33,38,44,48,54,56
		1.5	Inequalities	4,9,16,20,27,36,40,44,48,59,70,71,74,76,78,95
Midterm Exam: April 10, 2007 [P.1-1.5]				
8	Apr.7-11	2.1	A Two-Dimensional Coordinate System and Graphs	1,11,14,17,20,30,36,37,43,56,60,62,70,73,76,83,89
Midterm Vacation April 12-15, 2007				
9	Apr.16-18	2.2	Introduction to Functions	5,9,16,21,24,37,41,44,60,63,81,84
10	Apr.21-25	2.3	Linear Functions	9,12,24,30,36,44,48,52,74,75,89,92,97
		2.4	Quadratic Functions	7,18,24,33,44,48,60,76,77,85
11	Apr. 28-May 2	2.5	Properties of Graphs	11,15,18,24,29,33,35,40,42,46,48,54,60,61,65,68,85
		2.6	The Algebra of Functions	7,12,26,34,42,45,47,58,64,75,82
12	May 5-9	3.1	The Remainder and the Factor Theorem	6,23,30,31,44,48,52,57,69,71
		3.2	Polynomial Functions of Higher Degree	6,8,13,16,24,30,38,39,44,63
Exam II: May 12, 2007 [2.1-3.1]				
13	May 12-16	3.3	Zeros of Polynomial Functions	4,5,14,22,23,30,34,42,51,52,56,
14	May 19-23	3.4	The Fundamental Theorem of Algebra	10,20,28,35,38,46,50,52
		3.5	Graphs of Rational Functions and Their Applications	1,4,5,8,16,24,30,32,42,48,50,64
15	May 26-30	4.1	Inverse Functions	4,6,10,22,26,35,38,40,44
	June 2-3	Review	Last Day of Classes	

Evaluation Policy	Exam I(Written): 15 points	Midterm Exam (MCQ): 25 points	Exam II(Written) : 15 points	Final Exam (Comprehensive & MCQ): 35 points
	Class Work: (quizzes, CAL Activity, Homework, Class Attendance, etc): 10 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 affairs (1 st warning: 3 absences; 2 nd warning: 6 absences; "DN": 8 absences)				
Note # 2: To check your warnings (WEEKLY), Homework Solutions, Exam Locations, and other Math announcements, Please visit www.kfupm.edu.sa/mathprep .				
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 **memorize** the top 5 formulas of (table 1.2, page 91) and **understand** the bottom 5 formulas.