KING FAHD UNIVERSITY OF PETROLEUM & MINERALS
College of Applied & Supporting Studies
Prep-Year Math Program
SYLLABUS
MATH001 - TERM 161

Week #	Date	Text Sec.	Topic	Suggested Review Exercises
1	Sep. 18 – 22	R.1	Sets	8,12,14,26,28,40,50,64,70,88,92
			Review of Some Arithmetic Operations	Recitation Paper
SAUDI NATIONAL HOLIDAY: Thursday, September 22nd 2016				
2	Sep. 25 – 29	Rev	Review of Some Arithmetic Operations	Recitation Paper
		R.2	The Real Numbers and Their Properties	8,14,22,29,32,38,54,66,72,76,87
3	Oct. 02 – 06	R.3	Polynomials	17,26,30,38,40,48,51,70,74,86,88
		R.4	Factoring polynomial	13,22,40,46,58,70,82,92,98
4	Oct. 09 – 13	R.5	Rational Expressions	6,20,32,34,56,57,64,66
		R.6	Rational Exponents	8,23,26,29,36,42,68,80,90,100
5	Oct. 16 – 20	R.7	Radical Expressions	6,8,18,24,32,52,58,78,84,86,92
		1.3	Complex Numbers	23,36,50,52,68,80,86,92,98
M A J O R E X A M I : To be announced Later				
6	Oct. 23 – 27	1.1	Linear equations	16,26,30,32,35,47,54,58
		1.2	Applications and Modeling with Linear Equations (Example #1 ONLY)	8,9,10,12,13
7	Oct. 3 – Nov. 3	1.4	Quadratic Equations	16,30,42,53,62,70,72,80,87
		1.6	Other Types of Equations and Application	4,14,22,26,40,52,59,78,88
8	Nov. 06 – 10	1.7	Inequalities	9,24,33,44,46,64,72,84,92
		1.8	Absolute Value Equations and Inequalities	18,22,38,40,50,64,76,78,86
M I D – T E R M V A C A T I O N November 13 - 17				
9	Nov. 20 – 24	2.1	Rectangular Coordinates and Graphs	12,22,26,36,44,48,50,52,57
		2.2	Circles	8,12,14,22,30,42,44,50
10	Nov 27 – Dec.1	2.3	Functions	4,11,20,24,34,38,46,56,58,66,82
		2.4	Linear Functions	12,24,36,42,48,56,64
11	Dec. 04 – 08	2.5	Equations of lines, Curve Fitting	8,14,18,20,36,48,54,56,82
		2.6	Graph of Basic functions	4,16,20,34,36,40,44,45
M A J O R E X A M II: To be announced later				
12	Dec. 11 – 15	2.7	Graphing Technique	7,9,10,14,17,22,28,34,46,59,62
		2.8	Functions Operations and Composition	4,14,26,30,38,48,68,70,74,80
13	Dec. 18 – 22	3.1	Quadratic Functions and Models	4,12,24,26,34,48,74,76
		3.2	Synthetic Division	6,18,22,36,38,44,50,58
14	Dec. 25 – 29	3.3	Zeros of Polynomial Functions	16,22,28,32,42,46,50,72,76,98
		3.4	Polynomial Functions, Application and model	2,8,20,28,38,46,50,96
15	Jan. 01 – 05	3.5	Rational Function	
		Rev	Review for final exam	
16	Jan. 08	Rev	Review for final exam	
F I N A L E X A M: Monday, 16TH January 2017 [R.1 – 3.5]				

Textbook: College Algebra & Trigonometry by Lial, Hornsby, and Schneider, 5th Edition, Pearson, (2014)

Objectives:
➢ Develop the comprehension of the course material in English.
➢ Know how to conduct algebraic operations
➢ Know the concepts of functions, graphs and other properties of functions and solve related equations
➢ Use algebraic, numerical, and graphical processes to manipulate and analyze equations, inequalities, and functional relationships.

Note: The medium of instruction will be strictly ENGLISH from the first day of classes.

Grading Policy:
1. Exam I: 20% a common multiple choice exam.
2. Exam II: 20% a common multiple choice exam.
3. Final Exam: 36% a comprehensive common multiple choice exam.
4. Class Work: 18% based on a minimum of 5 quizzes (10%), 1 class tests (8%)
5. Online homework (6%).
Any quiz or test under class activity should be of written type and not of a multiple choice type.

Class Work Average: The average of the class work for each section should be in the interval:
[x-6 x+6], where x is the % average of (EX1 & EX2)

Exam Questions: The questions of the common exams are based on the examples, homework problems, recitation problems and the exercises of the textbook.

Missing an Exam: No makeup exam will be given under any circumstance. When a student misses Exam I or Exam II for a legitimate reason (such as medical emergencies), his grade for this exam will be determined based on the Department's policy. Furthermore, the student must provide an official excuse within one week of the missed exam.

Attendance:
A student will be awarded the GRADE "DN" after missing 8 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)

Website: http://www.kfupm.edu.sa/sites/pypmath/