

**KING FAHD UNIVERSITY OF PETROLEUM & MINERALS**

**College of Applied & Supporting Studies**

**Prep-Year Math Program**

**SYLLABUS – MATH 001 (152)**

Week#	Date	Text Sections	Topic	Suggested Review Exercises
1	Jan. 17 – 21	R.1	Sets	8,12,14,26,28,40,50,64,70,88,92
			Review of Some Arithmetic Operations	Recitation Paper
2	Jan. 24 – 28		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	Jan. 31 – Feb. 04	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	Feb. 7– 11	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	Feb. 14 – 18	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
<b>MAJOR EXAM I: Wednesday, 24<sup>th</sup> February 2016 [ R.1 – R.7]</b>				
6	Feb. 21– 25	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	Feb. 28 – Mar. 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	Mar. 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
<b>MID-TERM VACATION MAR. 13-17</b>				
9	Mar. 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	Mar. 27 – 31	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	Apr. 3 – 7	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
<b>MAJOR EXAM II: Monday, 11<sup>th</sup> April 2016 [ 1.1 – 2.5 ]</b>				
12	Apr. 10 – 14	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	Apr. 17 – 21	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	Apr. 24 – 28	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	May 01 – 02	3.5	Rational Function	
	May 03 – 05	Rev	Review for final exam	
<b>FINAL EXAM: May 2016 [ R.1 – 3.5 ]</b>				

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**Textbook:** College Algebra & Trigonometry by Lial, Hornsby, and Schneider, 5th Edition, Pearson, (2013)

**Objectives:** The objectives of this course are to:

- Develop the comprehension of the course material in English.
- Develop critical thinking among students.
- Improve their computational skills and demonstrate writing ability of solutions logically.

**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: 24% based on a minimum of 5 quizzes (10%), 1 class tests (8%) and 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:  $[x, x+1]$ , where  $x$  is the average of (EX1 & EX2) each out of 18.

**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 (1<sup>st</sup> warning: 3 absences; 2<sup>nd</sup> warning: 6 absences; "DN": 8 absences)

**Website:** <http://www.kfupm.edu.sa/sites/pypmath/>

**My office: 57-465**

**My office hours: UMTR: 12:10-1:00 pm**