

King Fahd University of Petroleum & Minerals
 Department of Mathematical Sciences
 Math 131 Syllabus (132)
 (Instructor: Dr. Rajai Alassar, 5-311)
<http://faculty.kfupm.edu.sa/math/alassar/>

Textbook: *Introductory Mathematical Analysis for Business, Economics, and the life and Social Sciences*, by Ernest F. Haeussler, Jr. Richard S. Paul, & R. J. Wood, 13th Ed.

Wk	Date	Sec.	Material	HW
1	January 26-30	1.1 1.3 3.1	Applications of Equations Applications of Inequalities Lines (Review)	4,12,16,20, 28, 33, 36, 43 2, 4, 6, 7, 9, 10, 12 12, 32, 58, 64, 69, 71
2	February 02-06	3.2 3.3 3.4	Applications & Linear Func Quadratic Functions (Rev.) Systems of Linear Equations	16, 17, 18, 20, 24, 26, 31 27, 29, 31, 34, 36, 39, 40 26, 28, 29, 34, 37, 39, 41
3	February 09-13	3.5 3.6	Nonlinear Systems Applicat.of Systems of Eqns.	6, 9, 12, 14, 15, 16 8, 15, 17, 18, 19, 20, 25
4	February 16-20	7.1 7.2	Linear Inequalit. in Two Var. Linear Programming	16, 18, 20, 22, 24, 28, 29 10, 13, 14, 15, 16, 17, 18
5	February 23-27	7.3 6.4	Multiple Optimum Solutions Solving Systems by Reduc	1, 2, 3, 4 17, 23, 27, 29, 30, 31, 32
6	March 02-06	6.5 7.4	Solving Systems Continued The Simplex Method	6, 8, 10, 12, 19, 21, 24 5, 8, 12, 16, 17, 18, 19
7	March 09-13	7.8 5.1	The dual(Exclude Example 3) Compound Interest	4, 10, 12, 13, 14, 15, 17 8,10, 12, 18, 19, 23. 24, 26
8	March 16-20	5.2 5.3	Present Value Interest Compound. Contin.	4, 8, 10, 11, 14, 16, 21 5, 10, 12, 14, 16, 19, 20
	March 21–29	Midterm Vacation		
9	Mar 30-Apr 03	5.4 8.1	Annuities Basic Counting Principle	16, 18, 22, 24, 26, 28, 29 6, 8, 10, 22, 25, 26, 29, 32, 35, 36, 38, 40
10	Apr 06-10	8.2 8.3	Comb and Other Count Prin. Sample Spaces and Events	10,14, 18, 23, 25,26, 30,33, 38 3, 6, 3, 6,9,14,22,26,28,29
11	Apr 13-17	8.4 8.5	Probability Conditional Probability	4,10,16,19,21,23,24,27, 31 2, 9, 12, 14, 16,17, 23, 24, 26, 36, 37, 39, 41, 49, 51
12	Apr 20-24	8.6 Suppl.	Independent Event Frequency Distribution	2,7,13,20,23,25,27,29,31,35,36 2, 4, 9, 11, 13, 15, 20, 22,
13	Apr 27-May 01	Suppl.	Measures of Central Tendency Measures of Variations	23, 25, 27, 35, 37, 39, 43, 44 5, 8, 10,12,13,24, 25, 26,33,36
14	May 04-08	9.1 9.2	Discr. Rand Var.& Exp.Value The Binomial Distribution.	3, 4, 5, 9, 11, 15, 16, 18, 20 4, 5, 10, 12, 17, 19, 20, 23, 25, 26
15	May 11-15	16.2	The Normal Distribution	2, 10, 14, 17, 19, 20, 21

Exam I (25%) : March 3, 2014

Exam II (25%): April 16, 2014

Classwork (15%)

Final Exam (35%)

Important Dates and Academic Calender: <http://regweb.kfupm.edu.sa>, KFUPM Attendance Policy will be enforced.