

King Fahd University of Petroleum & Minerals
 Department of Mathematical Sciences
 Math 131 Syllabus (141)
 (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. (2011).

Wk	Date	Sec.	Material	HW
1	Aug 31-Sep 04	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	Sep 7-11	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	Sep 14-18	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	Sep 21-25	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
Eid Vacation				
5	Oct 12-16	7.3 6.4	Multiple Optimum Solutions Solving Systems by Reduc	1, 2, 3, 4 17, 23, 27, 29, 30, 31, 32
6	Oct 19-23	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	Oct 26-30	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	Nov 2-6	5.2 5.3	Present Value Interest Compound. Contin.	4, 8, 10, 11, 14, 16, 21 5, 10, 12, 14, 16, 19, 20
9	Nov 9-13	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	Nov 16-20	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	Nov 23-27	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	Nov 30-Dec 4	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	Dec 7-11	Suppl.	Measurs of Central Tendency Measurs of Variations	23, 25, 27, 35, 37, 39, 43, 44 5, 8, 10,12,13,24, 25, 26,33,36
14	Dec 14-18	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	Dec 21-25	16.2	The Normal Distribution	2, 10, 14, 17, 19, 20, 21
16	Dec 28		Normal Tuesday Class (Review)	

Exam I (25%): October 22, 2014

Exam II (25%): November 26, 2014

Classwork (15%)

Final Exam (35%)

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