

King Fahd University of Petroleum and Minerals
Department of Mathematics and Statistics
Math 131-091
Syllabus

(S. Kabbaj, Office: 5-428, Office Hours: SMW 9:00-10:00)

Course: Math 131 Finite Mathematics

Textbook: Introductory Mathematical Analysis for Business, Economics, and the life and Social Sciences, by Ernest F. Haeussler, Jr. & Richard S. Paul, 11th /12th ed. (2005/2008). Supplementary notes from Mathematics with Applications, by Lial & Hungerford.

Week	Date	Section	Material	Homework
1	Oct. 3-7	1.1 1.3 3.1	Applications of Equations Applications of Inequalities Lines (Review)	4,12,16,20,25,28,33,36,43 1,2,4,5,6,7,9,10,11,12 12,14,32,56,58,64,66,67,69,71,72
2	Oct. 10-14 Online Test 1	3.2 3.3 3.4	Applications and Linear Functions Quadratic Functions (Review) Systems of Linear Equations	16,17,18,20,24,25,26,31 18,25,26,27,28,29,30,31,33, 34,36,39,40 10,16,25,26,28,29,34,37,38,39,41
3	Oct. 17-21	3.5 3.6	Nonlinear Systems Applications of Systems of Eqns.	4,6,7,9,10,12,13,14,15,16 5,7,8,15,16,17,18,19,20,21,25
4	Oct. 24-28 Online Test 2	7.1 7.2 7.3	Linear Inequalities in Two Var. Linear Programming Multiple Optimum Solutions	2,4,10,16,18,20,21,22,24,28,29 3,4,6,10,12,13,14,15,16,17,18 1,2,3,4
5	Oct. 31-Nov. 4 Exam 1-Nov. 3 Mat. 1.1 → 7.3	6.4 6.5 7.4	Method of Reduction Reduction in Matrix Algebra The Simplex Method	17,23,25,27,28,29,30,31,32 4,6,8,10,12,19,21,22,24 4,5,8,12,14,16,17,18,19
6	Nov. 7-11	7.8 5.1 5.2	The dual Compound Interest Present Value	4,6,9,10,12,13,14,15,17 2,8,10,12,18,19,20,23,24,26 2,4,6,8,10,11,14,16,17,18,19,21,22,24
7	Nov. 14-18	10.3 5.3	Interest Compounded Continuously Annuities	2,5,6,10,12,14,16,19,20 14,16,18,22,24,26,28,29,30
Eid Al-Adha Break				
8	Dec. 5-9	8.1	Basic Counting Principle and Perm	4,6,8,10,14,19,20,21,22,23,25,26,28, 29,30,31,32,35,36,37,38,39,40,41
9	Dec. 12-16 Online Test 3	8.2 8.3	Combinations & Other Count. Principles Sample Spaces and Events	2,5,10,11,14,15,17,18,23,25,26,27, 28,29,30,31,32,33,34,38 2,3,6,7,8,9,14,22,26,27,28,29,31
10	Dec. 19-23 Exam 2-Dec. 22 Mat. 6.4 → 8.2	8.4 8.5	Probability Cond. Prob. and Stoc. Proc.	4,10,16,18,19,21,23,24,27,29,31,32 2,9,11,12,14,16,17,23,24,26,36,37, 38,39,40,42,49,50,51
11	Dec. 26-30	8.5 8.6	Cond. Prob. and Stoc. Proc. (cont.) Independent Event	--- 2,4,7,8,13,14,15,20,23,25,27,28,29, 31,32,33,35,36
12	Jan. 2-6, 2010 Online Test 4	9.1 9.2	Discrete Rand. Var. and Exp. Value The Binomial Distribution	3,4,5,6,9,11,12,13,15,16,18,20 4,5,10,12,13,15,16,17,19,20,21,22, 23,24,25,26
13	Jan. 9-13	9.2 16.2	The Binomial Distribution (cont.) The Normal Distribution	--- 2,8,9,10,14,16,17,18,19,20,21,22
14	Jan. 16-20 Online Test 5	11.1 Suppl. Notes	Frequency Distributions. Measures of Central tendency pp. 506-516	1,2,4,9,11,13,15,20,22,23,25,27,35, 36, 37,39,43,44,45
15	Jan. 23-27	11.2 Suppl. Notes	Measures of Variations pp. 516-525	2,5,7,8,10,12,13,24,26,33,36

* **Grading Policy:** Class Work= 20%, Exam 1 = 22%, Exam 2 = 22%, Final = 36%

* **Final Exam (Comprehensive):** Saturday, January 30, 2010, Time = 07:30 a.m. – 10:30 a.m.

* DN policy will be adopted according to KFUPM regulations (from 9 absences)