King Fahd University of Petroleum and Minerals
Department of Mathematical Sciences
Syllabus of Math 131 (Finite Mathematics)
Term: 062: February 17, 2007 – June 16, 2007
Instructor: Dr. Raja Mohammad Latif

Textbook: ***Introductory Mathematical Analysis for Business, Economics, and the life and Social Sciences,*** **by Ernest F. Haeussler, Jr. Richard S. Paul, & R. J. Wood, 11th Ed. (2005).**
(Supplementary notes: ***Mathematics with Applications,*** **by Lial & Hungerford, 7th Ed. 1999).**

Week	Dates	Section	Material	Homework
1	Feb. 17 – Feb. 21	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, 66, 69, 71
2	Feb. 24 – Feb. 28	3.2 3.3 3.4	Applications and Linear Function Quadratic Functions 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	March 03 – March 07	3.5 3.6	Nonlinear Systems Applications of Systems of Eqns.	6, 9, 12, 14, 15, 16 8, 15, 17, 18, 19, 20, 25
4	March 10 – March 14	7.1 7.2 7.3	Linear Inequalities in Two Var. Linear Programming Multiple Optimum Solutions	16, 18, 20, 22, 24, 28, 29 10, 13, 14, 15, 16, 17, 18 1, 2, 3, 4
5	March 17 – March 21	6.4 6.5 7.4	Reduction in Matrix Algebra Reduction in Matrix Algebra The Simplex Method	17, 23, 27, 29, 30, 31, 32 8, 10, 12, 19, 21, 24 5, 8, 12, 16, 17, 18, 19
6	March 24 – March 28	7.8^ 5.1 5.2	The dual (^ Exclude Example 3) Compound Interest Present Value	4, 10, 12, 13, 14, 15, 17 8,10, 12, 18, 19, 23. 24, 26 4, 8, 10, 11, 14, 16, 21
7	March 31 – April 04	10.3 5.3	Interest Compounded Continuous Annuities	5, 10, 12, 14, 16, 19, 20 16, 18, 22, 24, 26, 28, 29
8	April 07 – April 11	8.1 8.1 8.2	Basic Counting Principle & Permutations Comb and Oth. Counting Prin.	6, 8, 10, 22, 25, 26, 29, 32, 35, 36, 38, 40 10,14,18,23,25,26,30,33,38
Midterm Break: Thursday – Sunday, April 12 – 15, 2007				
9	April 16–18	8.3	Sample Spaces and Events	3, 6, 9, 14, 22, 26, 28, 29
10	April 21 – April 25	8.4 8.5	Probability Conditional Probability	4,10,16,19,21,23,24,27, 31 2, 9, 12, 14, 16, 17, 23, 24,
11	April 28 – May 02	8.5 8.6 8.6	Conditional Probability (Cntd.) Independent Event Independent Event	26, 36, 37, 39, 41, 49, 51 2, 7, 13, 20, 23, 25, 27, 29, 31, 35, 36
12	May 05 – May 09	9.1 9.2	Dis. Rand. Var. & Exp. Value The Binomial Distribution	4, 5, 9, 11, 15, 16, 18, 20 4, 5, 10, 12, 17,
13	May 12 – May 16	9.2 16.2	The Binomial Distribution (Cntd.) The Normal Distribution	19, 20, 23, 25, 26 2, 10, 14, 17, 19, 20, 21
14	May 19 – May 23	16.3 Sup. 11.1 Pg:506-516	Normal Approx. to Bin. Dist. Frequency Distributions; Measures of Central Tendency	1, 3, 5, 6, 7, 8, 9, 10 2, 4, 9, 11, 13, 15, 20, 22, 23, 25, 27, 35, 37, 39, 43, 44
15	May 26 – May 30	Sup. 11.2 Pg:516-525	Measures of Variation Review & Catch Up	5, 8, 10, 12, 13, 24, 25, 26, 33, 36
16	June 02 – 03		Review & Catch Up	June 03:Last Day of Classes

KFUPM policy regarding attendance/DN grade will be strictly enforced for implementation.
Final Exam (Comprehensive) date: Monday, June 11, 2007 at 07:00 P.M. Scheduled by Registrar Offic.