

**King Fahd University of Petroleum and Minerals**  
**Department of Mathematical Sciences**

Syllabus of Math 131 (032)

Course Coordinator: Dr. A. Umar

(Course Instructor: \_\_\_\_\_ ; Office Rm \_\_\_\_\_ Tel. \_\_\_\_\_ )

Course # : Math 131

Title : Finite Mathematics

Textbook: *Introductory Mathematical Analysis for Business, Economics, and the life and Social Sciences*, by Ernest F. Haeussler, Jr. & Richard S. Paul, 10<sup>th</sup> ed. (2002). (Supplementary notes from *Mathematics with Applications*, by Lial & Hungerford.)

Week	Date	Section	Material	H/Work
1	Feb.14 -18	2.1 2.3 4.1 4.2	Applications of Equations Applications of Inequalities Lines (Review) Applications and Linear Functions	12,16,28,33 4,6,9,10 10,16,56,72 18,20,24
2	Feb.21-25	4.3 4.4 4.5	Quadratic Functions (Review) Systems of Linear Equations Nonlinear Systems	26,27,30 16,24,28,34 6,10,12
3	Feb. 28- Mar. 03	4.6 7.1 7.2	Applications of Systems of Eqns. Linear Inequalities in Two Var. Linear Programming	6,15,18,22 2,4,20,28 4,6,16,18
4	Mar. 06-10	7.3 6.4-6.5 7.4	Multiple Optimum Solutions Reduction in Matrix Algebra The Simplex Method	2,4 6.5:8,10,21,20,24
5	Mar. 13-17	7.4 7.8	The Simplex Method (cont'd.) The dual	4,8,16,18,19 4,6,12,13
6	Mar. 20-24	8.1 11.3 8.2	Compound Interest Interest Compounded Continuously Present Value	2,10,12,22 2,6,10,12 2,6,8,11
7	Mar. 27-31	8.3	Annuities	16,18,22,24,26
8	Apr. 03-07	9.1 9.2	Basic Counting Principle and Perm Comb and Other Counting Prin.	5,14,21,36 2,5,11,33
9	Apr. 10-14	9.3 9.4	Sample Spaces and Events Probability	2,6,8,22,29 4,10,18,24
10	Apr. 17-21	9.4 9.5	Probability (cont'd) Cond. Prob. and Stoc./ Proc. .	2,9,12,38
11	Apr. 24-28	9.6 Supplem- Notes	Independent Event Frequency Distributions	2,7,15,25
12	May 01-05	Supplem- Notes	Measures of Central tendency, Measures of Variations.	11.1-1,20,35, 39,45; 11.2- 2,7,24,26
13	May 08-12	10.1 10.2	Discrete Rand Var. and Exp Value The Binomial Distribution.	6,9,14,18 4,10,15,20
14	May 15-19	10.2 18.2	The Binomial Distribution (cont'd.) The Normal Distribution	2,8,9,20,22
15	May 22-26	18.2	The Normal Distribution (cont'd.) Review and catch-up	

\*Suggested times for Exams #1 & #2: Tuesday, Mar. 16<sup>th</sup> and Wednesday, Apr. 21<sup>st</sup>, respectively

\*KFUPM policy with respect to attendance will be enforced.

\*Final exam: To be announced later (Comprehensive).

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