

**Math 131- Finite Mathematics**  
**Syllabus - Summer 2014 (Term 133)**

Instructor: Salah-Eddine Kabbaj صلاح الدين فَبَّاج, Office: 5-428, Office Hours: UMT 10:30 a.m.-12:00 p.m.

Email: [kabbaj@kfupm.edu.sa](mailto:kabbaj@kfupm.edu.sa) Homepage: <http://faculty.kfupm.edu.sa/math/kabbaj>

Textbook: Introductory Mathematical Analysis for Business, Economics, and the life and Social Sciences, by Ernest F. Haeussler, Richard S. Paul, and Richard J. Wood, 13<sup>th</sup> edition.

Week	Date	Sec.	Material	Selected Problems
1	08/6 – 12/6	1.1 1.3 3.1 3.2 3.3	Applications of Equations Applications of Inequalities Lines (Review) Applications and Linear Functions Quadratic Functions (Review)	1,4,12,16,20,25,33,36,43 1,2,4,5,6,7,9,10,11,12 12,14,32,56,58,64,66,67,69,71,72 16,17,18,20,24,25,26,31 18,25,26,27,28,29,30,31,33, 34,36,39,40
2	15/6 – 19/6 <b>Monday Quiz 1</b> 1.1 → 3.5	3.4 3.5 3.6 7.1 7.2	Systems of Linear Equations Nonlinear Systems Applications of Systems of Eqns. Linear Inequalities in Two Var. Linear Programming	10,16,25,26,28,29,34,37,38,39,41 4,6,7,9,10,12,13,14,15,16 5,7,8,15,16,17,18,19,20,21,25 2,4,10,16,18,20,21,22,24,28,29 3,4,6,10,12,13,14,15,16,17,18
3	22/6 – 26/6 <b>Monday Quiz 2</b> 3.6 → 7.3	7.3 6.4 6.5 7.4 7.8	Multiple Optimum Solutions Solving Systems by Reduction Solving Systems by Reduction The Simplex Method The dual (Example 3 excluded)	1,2,3,4 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 4,6,9,10,12,13,14,15,17
4	29/6 – 03/7 <b>Monday Quiz 3</b> 7.4 - 7.8	5.1 5.2 5.3 5.4	Compound Interest Present Value Interest Compounded Continuously Annuities	2,8,10,12,18,19,20,23,24,26 2,4,6,8,10,11,14,16,17,18,19,21,22,24 2,5,6,10,12,14,16,19,20 8,10,14,16,18,20,23,24,25
5	06/7 – 10/7 <b>Monday Quiz 4</b> 5.1 → 5.4	8.1 8.2 8.3	Basic Counting Principle and Perm. Combinations. Other Count. Princip. Sample Spaces and Events	4,6,8,10,14,20,21,22,23,29,30,31,32,,36,,39,41 2,5,10,11,14,15,17,18,23,27,28,30,31,33,34,35 2,3,6,7,8,9,14,22,26,27,28,29,30
6	13/7 – 17/7 <b>Monday Quiz 5</b> 8.1 → 8.4	8.4 8.5 8.6	Probability Cond. Prob. and Stoc. Proc. Independent Event	4,10,16,18,19,21,23,24,27,29,31,32 2,9,11,12,14,16,17,23,24,26,36,37,38,39,49,51 2,4,7,8,13,14,15,20,23,25,27,28,29,31,32,35,36
<b>Ramadan Break</b>				
7	03/8 – 07/8 <b>Monday Quiz 6</b> 8.5 → 11.2	11.1 11.2 9.1	Freq. Dist. Measures (Suppl. Notes) Meas. of Variations (Suppl. Notes) Discrete Rand. Var. and Exp. Value	1,2,4,9,11,13,15,20,22,23,25,35,36,37,39,43,45 2,5,7,8,10,12,13,24,26,33,36 3,4,5,6,9,11,12,13,15,16,18,20
8	10/8 – 12/8	9.2 16.2	The Binomial Distribution The Normal Distribution	4,5,10,12,13,15,16,17,19,20,21,22,23,24,25,26 2,8,9,10,14,16,17,18,19,20,21,22

**Grading Policy:**

Six Quizzes = 20% / Duration = 20 minutes each

Exam 1 (Essay) = 20% / Duration = 90 minutes / **Wed. June 25<sup>th</sup> at 04:00 p.m.** B. 54 / Sections: **1.1 → 6.5**

Exam 2 (Essay) = 20% / Duration = 90 minutes / **Mon. July 14<sup>th</sup> at 09:30 p.m.** B. 54 / Sections: **7.4 → 8.4**

Final Exam (MC) = 40% / Duration = 150 minutes / **Wed. August 13<sup>th</sup> at 07:00 p.m.** B. 54 / **Comprehensive**

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

\* The questions of the quizzes and exams are based on the examples, homework, and the problems of the textbook.

\* **No makeup** quiz or exam will be given under any circumstance. If a student misses a quiz or exam for a legitimate reason (e.g., medical emergencies), his final grade will be determined based on the non-missed quizzes and exams.