King Fahd University of Petroleum & Minerals
Department of Mathematical Sciences
Math 132 Syllabus (081) - Revised
(Coordinator: Dr. Rajai Alassar)
(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, 11th Ed. (2005).

Wk	Date	Sec.	Material	HW
1	Oct 11 – 15	10.1 10.2 10.4	Limits Limits (cont'd) Continuity	17,18,33,40,43 2,15,36,42,52,57 5,11,24,32,37
2	Oct 18 – 22	11.1 11.2 11.3	The Derivative Rules for Differentiation The Derivative as a Rate of Change	13, 14,17,26,27 22,34,61,73,78,85 8,12,16,20,27,39,41
3	Oct 25 – 29	11.4 11.5	Differentiability and Continuity Product and Quotient Rules	 10,16,37,50,61,66
4	Nov 1 – 5	11.6 12.1 12.2	The Chain Rule and the Power Rule Derivatives of Logarithmic Functions Derivatives of Exponential Functions	8,18,44,46,62,69,72 18,20,26,32,50 16,26,30,38,39
5	Nov 8 – 12	12.4 12.5 12.7	Implicit Differentiation Logarithmic Differentiation Higher Order Derivatives	10,18,24,26,34 8,12,19,21,26 2,14,30,34,37
6	Nov 15 – 19	13.1 13.2 13.3	Relative Extrema Absolute Extrema on a Closed Interval Concavity	18,30,46,48,60 2,10,12 14,30,40,46,68
7	Nov 22 – 26	13.4 13.5 13.6	The Second-Derivative Test Asymptotes Applied Maxima and Minima	6,8,12 14,22,38,46 2,14,18,22,26
8	Nov 29 – Dec 2	14.1 14.2	Differentials The Indefinite Integral	12,18,22,28 10,20,30,42,50
	Dec 3 – 13		**Eid Aladha**	
9	Dec 14 – 18*	14.3 14.4 14.5	Integration with Initial Conditions More Integration Formulas Techniques of Integration	6,8,10,12,14 9,15,35,53,70,75 6,18,30,44,48,55
10	Dec 20 – 24	14.8 14.10 14.11	The Fundamental Theorem of Int. Calculus Area Area between Curves	16,32,36,44,48 9,15,20,24,34 1,5,12,30,30,32
11	Dec 27 – 31	15.1 15.3	Integration by parts Integration by Tables	8,12,18,20,24,28,32 8,12,30,36,49,54
12	Jan 3 – 7	**	Derivatives and Integrals of Trig. Function	**Handout**
13	Jan 10 – 14	17.1	Functions of Several Variables	2,5,12,16,23,28
14	Jan 17 – 21	17.2 17.5	Partial Derivatives Higher Order Partial Derivatives	6,18,20,28,34 6,9,12,20,21
15	Jan 24 – 28	17.7	Maxima and Minima for funs. of Two Vars.	4,8,15,19,22,26,29
16	Jan 31		Review	

* Dec 18 is a Normal Wednesaday Class
KFUPM Attendance Policy will be enforced
Exam I (22.5 %) : Nov 15, 2008
Exam II (22.5 %): Jan 3, 2009
Classwork (15 %)
Final Exam (40 %)
Important Dates and Academic Calender: *http://regweb.kfupm.edu.sa/cal/cal081.htm*