King Fahd University of Petroleum and Minerals
University Diploma Program
Syllabus of MATH 011 (043)
(Mr. Luai Al-Labadi)

Course #:   Math 132
Title   :   Applied Calculus
Textbook: *Introductory Mathematical Analysis for Business, Economics, and the Life and Social Sciences*, by Ernest F. Haeussler, Jr. & Richard S. Paul, 10th ed. (2002).

Week	Date	Section	Material	Homework
1	July 2-6	11.1	Limits	17,18,32,34,38
		11.2	Limits(continued)	2,15,23,36,41,52
		11.4	Continuity	2,6,11,15,23,32
		12.1	The Derivative	4,12,16,20,28
2	July 9-13	12.2	Rules for Differentiation	23,38,43,44,73
		12.3	The Derivative as a Rate of Change	5,12,18,22,28,40
		12.4	Differentiability and Continuity	11, 29, 32
		12.5	Product and Quotient Rules	9,27,40,46,54,71
		12.6	The Chain Rule and Power Rule	5,21,44,56,62,71
			Major Exam I: Saturday, 16-7-2005	
3	July 16-20	13.1	Derivatives of Logarithmic Functions	8,12,29,44,48,50
		13.2	Derivatives of Exponential Functions	6,18,27,32,37,39
		13.3	Implicit Differentiation	9,18,28,32,34
		13.4	Logarithmic Differentiation	2,8,13,17,22,25
		13.5	Higher Order Derivatives	2,7,13,24,35,38
		14.1	Relative Extrema	3,6,29,39,58,65
4	July 23-27	14.2	Absolute Extrema on a Closed Interval	3.8,12
		14.3	Concavity	3,19,34,59,63,68
		14.4	The Second-Derivative Test	2,8,13,14
		14.5	Asymptotes	11,14,30,39,46
		15.1	Applied Maxima and Minima	2,3,5,8,21,25
			Major Exam II: Saturday, 30-7-2005	
5	July 30- August 3	15.2	Differentials	7,13,20,26,35,38
		16.1	The Indefinite Integral	9,20,22,40,47,51
		16.2	Integration with Initial Conditions	4,8,11,14,21,22
		16.3	More Integration Formulas	9,15,35,53,60,82
6	August 6-10	16.4	Techniques of Integration	6,18,30,44,48,55
		16.7	The Fundamental Theorem of Integral Calculus	14,31,40,47,49
		16.8	Area	9,15,20,24,31,34
		16.9	Area between Curves	1,5,30,31,32
		17.1	Integration by Parts	8,18,24,28,32
			Major Exam III: Saturday, 13-8-2005	
7	August 13-17	17.3	Integration by Tables	12,30,40,47,54
		Hand-out	Derivatives and Integrals of Trig. Functions	
		19.1	Functions of Several Variables	6,12,15,18
		19.2	Partial Derivative	6,18,20,28,34
8	August 20-22	19.5	Higher Order Partial Derivatives	6,9,13,16,20,21
		19.7	Maxima and Minima for Functions of Two Variables	8,15,19,22,29

Evaluation Policy	Exam I: 15 %	Exam II: 15 %	Exam III: 15 %	Final Exam (Comprehension & MCQ): 40 %
	Class Work: (Quizzes, Home work, Class Attendance) 15%			

Course Regulations:
- KFUPM policy with respect to attendance will be enforced.
  Warning I: 4 absences, **Warning II:** 8 absences, **DN:** 12 absences
- Each H.W. is due every Monday in class. 20% will be deducted from the grade of each one day late.
- Students are expected to be responsible about all the problems that are given by the assigned textbook and the instructor.