

KING FAHD UNIVERSITY OF PETROLEUM & MINERALS
DEPARTMENT OF MATHEMATICAL SCIENCES
DHAHRAN, SAUDI ARABIA
Course Outline, Semester 062

Instructor: Esam Alsawi
Phone: 1887
Web Page:
Office Hours:

Office: 147-4
E-mail: alsawies

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, 11^h ed. (2005)

Activity	Weight
Homework	3%
Attendance	3%
Quizzes	9%
Exam 1: Week#6 (Chapters 10,11, & 12) .04.2007, , 6.00 pm-8.00.pm	20%
Exam 2: Week#11 (Chapters 10 & 12) .04.2007, , 6.00 pm-8.00.pm	20%
Final Exam (Comprehensive)	40%

Notes:

1. Attendance on time is **very** important. Therefore, ½ % will be deduced for **each** one absence.
2. Mostly, attendance will be checked within the **first five minutes** of the class. Entering the class after that, is considered as one late, and **every two “lates”** equals to one absence.
3. In accordance with the university undergraduate bulletin, **ten** unexcused absences will result in a grade of **DN**.
4. All contacts or announcements between the instructor and the students are supposed to be held on the WebCT, so the student **must** check his WebCT inbox **at least once** a day.

(Tentative Syllabus)

Week	Date	Section	Material	Homework	Notes
1	17/02 – 21/02	10.1	Limits	17,18,33,40,43	Deadline for late registration and adding courses (20/02)
		10.2	Limits (cont'd)	2,15,36,42,52,57	
		10.4	Continuity	5,11,24,32,37	
2	24/02 – 28/02	11.1	The Derivative	13, 14,17,26,27	Deadline for dropping courses without permanent record (27/02)
		11.2	Rules for Differentiation	22,34,61,73,78,85	
		11.3	The Derivative as a Rate of Change	8,12,16,20,27,39,41	
3	3/03 – 7/03	11.4	Differentiability and Continuity		
		11.5	Product and Quotient Rules	10,16,37,50,61,66	
4	10/03 – 14/03	11.6	The Chain Rule and the Power Rule	8,18,44,46,62,69,72	
		12.1	Derivatives of Logarithmic Functions	18,20,26,32,50	
		12.2	Derivatives of Exponential Functions	16,26,30,38,39	
5	17/03 – 21/03	12.4	Implicit Differentiation	10,18,24,26,34	
		12.5	Logarithmic Differentiation	8,12,19,21,26	
		12.7	Higher Order Derivatives	2,14,30,34,37	
Major Exam I, Suggested time:				Exam Material : Ch10, Ch11, & Ch12.	
6	24/04 – 28/04	13.1	Relative Extrema	18,30,46,48,60	Midterm grade report (27/03)
		13.2	Absolute Extrema on a Closed Interval	2,10,12	
		13.3	Concavity	14,30,40,46,68	
7	31/03 – 4/04	13.4	The Second-Derivative Test	6,8,12	Deadline for dropping courses with "W"(3/04)
		13.5	Asymptotes	14,22,38,46	
		13.6	Applied Maxima and Minima	2,14,18,22,26	
8	7/04 – 11/04	14.1	Differentials	12,18,22,28	
		14.2	The Indefinite Integral	10,20,30,42,50	
12/04-15/04		Midterm Vacation			
9	16/04 – 18/04	14.3	Integration with Initial Conditions	6,8,10,12,14	
		14.4	More Integration Formulas	9,15,35,53,70,75	
		14.5	Techniques of Integration	6,18,30,44,48,55	
10	21/04 – 25/04	14.8	The Fundamental Theorem of Int. Calculus	16,32,36,44,48	
		14.10	Area	9,15,20,24,34	
		14.11	Area between Curves	1,5,12,30,30,32	
Major Exam II, Suggested time:				Exam Material : Ch13& Ch14.	
11	28/04 – 2/05	15.1	Integration by parts	8,12,18,20,24,28,32	Deadline for withdrawal from all courses with "W" (29/04)
		15.3	Integration by Tables	8,12,30,36,49,54	
12	5/05 – 9/05	**	Derivatives and Integrals of Trig. Function	Handout	
13	12/05 – 16/05	17.1	Functions of Several Variables	2,5,12,16,23,28	
14	19/05 – 23/05	17.2	Partial Derivatives	6,18,20,28,34	Deadline for Majors and withdrawal from all courses with "WP/WF" (27/05)
		17.5	Higher Order Partial Derivatives	6,9,12,20,21	
15	26/05 – 30/05	17.7	Maxima and Minima for funs. of Two Vars.	4,8,15,19,22,26,29	
16	2/06-3/06		Catch up & Review		