

King Fahd University of Petroleum and Minerals
 Department of Mathematical Sciences
SYLLSBUS
 (Semester III 2000-2001) (003)
 (A. Al-Shakhs)

Course # : MATH 102
 Course Title : Calculus II
 Textbook : Calculus , A New Horizon ; by Howard Anton ,sixth edition (1999)

Wk #	Date	Sec. #	Material	Homework
1	Jun 24 - 27	4.1 4.2 4.4	Inverse Functions Logarithmic and Exponential Functions Derivatives of Log. And Expo. Functions	19,26,30,34,49 14,24,31,36-b,48,57 7,28,32,38,46,48,60-b
2	Jun 30 - July 4	4.5 5.1-5.3 6.1-6.5 7.3 4.7	Der. Of Inverse Trig. Functions Selected Problems Selected Problems Selected Problems L'Hopital's Rule and Indeterminate Forms	13-a,26,29,36-b,40,45 5.1(24),5.2(15-b),5.3(42) 6.1(31),6.2(15),6.4(14) 6.5(36),7.3(19-36-46)0 14,30.35,49-c,52,60
July 2 Last day of dropping courses without permanent record .				
3	Jul 7 -11	7.9 8.1 8.2 8.3	Log Functions From Integral point of view Area between two curves Volumes by Slicing: Disks and Washers Volumes by Cylindrical Shells	4-a,11-b,22,34,35,39 2,8,16,26,31 2,10,22,27,31,47 2,12,16,27
4	Jul 14 - 18	8.3 8.4 8.5 8.8 9.1	Continued Length of a Plane Curve Area of a Surface of Revolution Hyperbolic Functions and Hanging Cables An Overview of Integration Methods	8,14,19,26 4,8,21,24,26 15,22,36,40,42,52,58-a,68 10,21,26
July 16 is the Last day of dropping courses with W				
5	July 21 - 25	9.2 9.3 9.4 9.5	Integration by Parts Trigonometric Integrals Trigonometric Substitutions	6,14,22,23,36,50-a,53-a 8,12,30,50,64 10,22,26,36,44 6,12,20,22,33,42
July 25 Last day of dropping the term with W				
6	July 28 - Aug 1	9.6 9.8 11.1 11.2	Special Substitutions(pp 546-549) Improper Integrals Sequences Monotone Sequences	58,61,68,71 2-a,10,16,26,31,42,50-b,51,56-b,66 4-a,9,18,21,28,33,46 6,17,23,26,28
7	Aug 4 - Aug 8	11.3 11.4 11.6 12.1	Infinite Series Convergence Tests Comparison , Ratio , and Root Tests Polar Coordinates	1-c,8,12,20,23,26-b,33 1-a,5-c8-a,18,25,32-b,36 2-b,4-b,8,16,21,40,52,54 4-b,5-b,9-b,12-b,16,20,30,44,66
Aug 8 is the last day of withdrawal from all courses with WP / WF				
8	Aug 11 - 13	12.2 12.3	Tangent Lines and Arc Leng. for Pol. Curves Area in Polar Coordinates	4,6,17,22,36,46,50,53 4,8,10,16,20,22

First Major Test will be on Tuesday July 10 *** Second Major Test will be on Tuesday 31**
 KFUPM Policy with respect to absences will be enforced