Math 101 Syllabus

2008-2009 (082)

Coordinator: Dr. Ibrahim Al-Rasasi

Week	Date	Sec.	Topics (28 sections)
1	Feb. 28- March 5*	2.1 2.2 2.3	The Tangent Problem: **Example # 1**. The Limit of a Function Calculating Limits Using the Limit Laws
2	March 7-11	2.3 2.4	Continued The Precise Definition of a Limit: Examples 1,2, and 3
3	March 14-18	2.5 2.6	Continuity Limits at Infinity; Horizontal Asymptotes
4	March 21-25	2.7 2.8	Tangents, Velocities, and Other Rates of Change Derivatives
5	March 28-April 1	2.9 3.1	The Derivative as a Function + Exercise # 46 Derivatives of Polynomials and Exponential Functions
Exam I: Monday, March 30, 2009.// Materials: 2.1 to 2.7 (A Written Exam)			
6	April 4-8	3.2 3.3 3.4	The Product and Quotient Rules Rate of Change in Physics: **Example 1**. Derivatives of Trigonometric Functions
7	April 11-15	3.4 3.5	Continued The Chain Rule
8	April 18-22	3.6 3.7	Implicit Differentiation Higher Derivatives
Midterm Break: April 25-29, 2009. (One Week)			
9	May 2-6	3.8 3.9	Derivatives of Logarithmic Functions Hyperbolic Functions
10	May 9-13	3.9 3.10	Hyperbolic Functions Related Rates
11	May 16-20	3.11 4.1	Linear Approximations and Differentials Maximum and Minimum Values
Exam II: Monday, May 18, 2009 // Materials: 2.8 to 3.8 (An MCQ Exam)			
12	May 23-27	4.1 4.2	Continued The Mean Value Theorem
13	May 30- June 3	4.3 4.4	How Derivatives Affect the Shape of a Graph Indeterminate Forms and L'Hospital's Rule
14	June 6-10	4.5 4.7	Summary of Curve Sketching Optimization Problems
15	June 13-16**	4.9 4.10	Newton's Method Antiderivatives
Final Exam: A Comprehensive Multiple Choice Exam, Date is to be announced			

*: Thursday, March 5, 2009 is a normal Wednesday class.

**: Last day of classes is TUESDAY, June 16, 2009.