

SYLLABUS

Semester II-(072)

Coordinator: Ashfaque H. Bokhari

Course #: Math 201
Title: Calculus III
Textbook: Calculus (Early Transcendentals): James Stewart; **Fifth edition (2003)**
Course Math 201 is a continuation of Math 101 (Calculus I) and Math 102 (Calculus II).
Description: These courses are designed as an introduction to the fundamental concepts of calculus and analytic geometry. The concepts studied in Math 201 include solid analytic geometry, vectors and surfaces, differentiation of functions of several variables and multiple integrals.

<i>Week</i>	<i>Date</i>	<i>Sections</i>	<i>Topics</i>
1	Feb 16-20	10.1 10.2	Curves Defined by Parametric Equations Calculus with Parametric Curves
2	Feb 23-27	10.3 10.4	Polar Coordinates Areas and Lengths in Polar Coordinates
3	March 01-05	12.1 12.2	Three-Dimensional Coordinate Systems Vectors
4	March 07-12	12.3 12.4	The Dot Product The Cross Product
5	March 15-19	12.5 12.6	Equations of Lines and Planes Cylinders and Quadric Surfaces
<i>Major Exam I: Monday, March 17, 2008</i>			
6	March 22-26	12.6 12.7	Continued Cylindrical and Spherical Coordinates
7	March 29-April 02	14.1 14.2	Functions of Several Variables Limits and Continuity
8	April 05-09	14.3 14.4	Partial Derivatives Tangent Planes & Linear Approximation
<i>April 12-16: Mid Term Break from</i>			
9	April 19-23	14.5 14.6	The Chain Rule Directional Derivatives and the Gradient Vector
10	April 26-30	14.6 14.7	Continued Maximum and Minimum Values
<i>Major Exam II: Monday, April 28, 2008</i>			
11	May 03-07	14.8 15.1	Lagrange Multipliers Double Integrals over Rectangles
12	May 10-14	15.2 15.3	Iterated Integrals Double Integrals over General Regions
13	May 17-21	15.3 15.4	Continued Double Integrals in Polar Coordinates
14	May 24-28	15.7 15.8	Triple Integrals Integrals in Cylindrical and Spherical Coordinates
15	June 31-04	-	Tgxlgy "cpf "ecvej /wr "

- The dates for Major Exams I and II are set by the College of Sciences to avoid conflicts with other exams.
- The date, time and place of Final examination will be announced by the Registrar. The Final examination will be comprehensive.

Suggested Homework Problems for Math 201, Term 072

Sections	Suggested Homework Problems
10.1	1,3,7,9,12,14, 20,26,29,35(a)
10.2	2,4,8,9,14,16,19,32,39,59
10.3	2, 3,5,11,17,26,31,35,55
10.4	1,4,7,9,14,17,21,23,31,35,40,45
12.1	2,4,7,10,12,17,21,25,27,32,35
12.2	1,4,7,22,25,26
12.3	2,6,9,11,14,16,20,24,27,29,38,43,50
12.4	1,7,9,13,16,25,29,33,36,39,41,45
12.5	1,5,9,15, 17,22,30,38,41,49,51,73
12.6	1,3,6,9,11,21,29,41,43
12.7	3,11,18,21,26,31,34,37,40,43,49,57
14.1	7,14,31,9,24,27,45
14.2	4,8,10,11,20,28,34,35,37
14.3	1,5,14,21,24,35,39,47,54,67
14.4	1,11,16,23,30
14.5	3,6,9,21,25,27,44,47,51
14.6	4,10,11,17,20,24,28,39,52
14.7	1,7,13,27,32,37,45
14.8	3,9,23,38
15.1	2,9,11,17
15.2	2,3,5,8,12,17,19,21,23,27,30,33
15.3	2,6,11,15,18,20,24,27,37,40,44,49
15.4	1,5,8,10,17,18,22,26,32
15.7	4,9,14,18,20,25,28,32,33,40
15.8	1,4,5,8,10,17,21,33,35