GRANDE PRAIRIE REGIONAL COLLEGE DEPARTMENT OF COMPUTING, MATHEMATICS and STATISTICAL SCIENCES MATHEMATICS 1010 A3 WINTER 2005

Title:	Calculus II			
Prerequisite:	Math 1000			
Schedule:	Lecture A3 Seminar AS1 Seminar AS2	T R R R	10:00-11:20 1:30-2:20 12:30-1:20	J229 J227 J227
Instructor:	Thomas Kaip Office: J212 Phone : 2963 e-mail : kaip@gprc.ab.ca			
Textbooks:	James Stewart; Calculus Early Transcendental 5 th Ed.			
Grading:	Assignments Quizzes Midterm Final Exam	10% 15% 25% 50%		
Content:	Techniques of integration. Applications of integration to planar areas and lengths, volumes and masses. Introduction to differential equations: laplace transforms, separable, linear, direction fields, Euler's method, applications. Infinite series, power series, Taylor expansions with remainder terms. Polar coordinates. Rectangular, spherical and cylindrical coordinates in 3-dimensional space. Parametric curves in the plane and space: graphing, arc length, curvature; normal binormal, tangent plane in 3-dimensional space. Volumes and surface areas of rotation.			
Quizzes :	Quizzes will be held in the latter 30 minutes of the seminar. There will be a total of n Quizzes. The best n-2 quizzes will count towards your grade.			
Calculators :	Calculators WILL NOT be allowed in quizzes and exams.			