GRANDE PRAIRIE REGIONAL COLLEGE DEPARTMENT OF SCIENCE MATHEMATICS 1010 A3 WINTER 2009

Title:

Calculus II

Prerequisite:	Math 1000					
Schedule:	Lecture A3 Seminar AS1	Μ	W	F F	09:00-09:50 10:00-10:50	
Instructor:	Thomas Kaip Office: J212 Phone: 2963 e-mail: kaip@gprc.ab.ca					
Textbooks:	James Stewart; Calculus Early Transcendental 6 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.