

**GRANDE PRAIRIE REGIONAL COLLEGE
DEPARTMENT OF SCIENCE AND TECHNOLOGY
MATHEMATICS 1000 A2
FALL SEMESTER 2004**

TITLE: CALCULUS I

SCHEDULE: Lectures M W 10:00 – 11:20 J228
Seminars T or R 12:30 – 14:20 J101

INSTRUCTOR: Thomas Kaip
Office J212
Extension 2963
Email kaip@gprc.ab.ca

TEXTBOOK: James Stewart ; CALCULUS EARLY TRANSCENDENTALS 5th Ed.

COMPOSITION OF THE COURSE GRADE:

Final Exam	50%
Midterm Exam	30%
Assignments	10%
Quizzes	10%

COURSE TOPICS: Review of analytic Geometry and Functions
Limits and the Definition of the Limit
Continuity and the Intermediate Value Theorem
Differentiation of Elementary Functions
Log, Exponential and Inverse Trig Functions
Taylor Polynomials
Rolles Theorem and the Mean Value Theorem
Differentials and Applications
Applications to Rates, Maxima and Minima
Introduction to Integration
Fundamental Theorems
Numerical Integration and Area

CALCULATORS: No calculators allowed in Quizzes and Exams