

GRANDE PRAIRIE REGIONAL COLLEGE
DEPARTMENT OF COMPUTING, MATHEMATICS
and STATISTICAL SCIENCES
MATHEMATICS 1000 A2
FALL SEMESTER 2001

SEP. 10 2002

TITLE: CALCULUS I

PREREQUISITE: Math 30 and Math 31

SCHEDULE: Lectures M W 10:00 – 11:20 J202
Seminars R 12:00 – 13:50

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

OFFICE HOURS: T.B.A.

TEXTBOOK: James Stewart ; CALCULUS EARLY TRANSCENDENTALS 4th Ed.

COMPOSITION OF THE COURSE GRADE:

Final Exam	50%	T.B.A.
Midterm Exam	30%	Wednesday, October 24 2001
Quizzes (4)	20%	T.B.A.

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