Champlain
COLLEGE SAINT-LAMBERT

MATHEMATICS 201-NYA   **WINTER SEMESTER 2010**
Calculus I --- Science

Instructor: Dr. Ming Mei
Office: E –214
Telephone: (450) 672 – 7360 ext. 278
Email: mmei@champlaincollege.qc.ca or mei@math.mcgill.ca
Website: http://www.math.mcgill.ca/~mei
Office Hours: TBA

PREREQUISITE
Secondary V Mathematics 536 (or equivalent)

TEXTBOOK
Single variable Calculus, Early Transcendentals, 6th ed. By James Stewart
Brooks/Cole Publishing, 2007.

GENERAL OBJECTIVE
In Calculus I, students will learn to apply the methods of differential Calculus to the study of function models in the field of Social Science.

OUTLINE
The course will cover the following material:

Functions, limits, continuity: §1.1 -- §1.6
Derivative: §2.1 -- §2.8
Inverse functions: §3.1 -- §3.7
Applications of differentiation: §4.1 -- §4.7

TEACHING METHODS
Class time will be devoted to lectures and problem solving. During problem solving sessions, students are encouraged to work in groups. Problems taken from the book will be suggested after each session. They indicate the level of difficulty of the problems that the students are expected to solve. The book will be followed closely and it is absolutely essential that each student has a copy and brings it to every problem solving session. Additional exercises (web-work based on computer) will be provided by the instructor.

EVALUATION
There will be weekly quizzes, weekly web-work (homework), and three term tests. The exact dates for the tests will be announced at least one week prior to the tests. Attendance is required for all term tests and quizzes. No possibility of making up test or quiz exists unless a written medical notice is presented immediately after student's recovery.

ASSEMEMT PLAN
Quizzes: 20%,   Webwork: 20%,   Test 1: 20%,   Test 2: 20%,   Test 3: 20%

CALCULATORS
 During tests, only calculators <u>without</u> graphic displays shall be permitted.

ATTENDANCE
Attendance is required at all class tests and highly recommended otherwise.

PLAGIARISM
Students are referred to the college policy on this topic. In particular, students caught cheating in a test will receive zero for that test and their names will be submitted to the College Administration.

<u>The use of electronic music-producing devices or portable phones during class is strictly forbidden at all times</u>.