MATH 2310: Intermediate Calculus I **Fall 2007**

Instructor	James Muir, MN 101, 420-5788 (office phone), jamuir at cs dot smu dot ca
lectures	10:00am–11:15am Monday & Wednesday in ME 110
recitations	Section A, 10:00am–11:15am Friday in LA 191
	Section B, 1:00pm–2:15pm Friday in LA 191
office hours	11:30am–5:30pm Thursday in MN 101

Course web page. http://cs.smu.ca/~jamuir/math2310/

Course description (from the University Calendar). This course consists of the study of the "epsilon-delta" definition of limits and continuity; the least upper bound axiom; completeness of the real line; the intermediate value theorem; and the monotone convergence theorem. This course also provides an introduction to compactness in various forms. Infinite sequences and series are discussed from a more rigorous perspective than MATH 1211. These ideas are extended to two-dimensions and to the complex numbers. Additional topics may include: elementary asymptotics; the big-Oh notation; power series as generating functions; uniform convergence and uniform continuity; and Riemann sums and integration.

Prerequisites: MATH 1210 and MATH 1211.

Text. The required text is *Calculus: Early Transcendentals, Fifth Edition* by James Stewart (please note that we will be using the **Fifth Edition**). Note that some topics we will discuss are not found in the text. For such topics, the primary source of information will be lecture notes.

Evaluation. Your final mark will be computed using the following weights:

20% Quizzes (a total of ten, held during recitations)
30% Midterm (one, held during lecture time)
50% Final Exam (to be scheduled by the University)

Conversion to letter grades will be done according to the following table:

A+	90-100	B+	77-79.99	C+	67-69.99	D	50-59.99	F	0-49.99
A	85-89.99	B	73-76.99	C	63-66.99				
A-	80-84.99	B-	70-72.99	C-	60-62.99				

Policies.

1. The course web page (listed above) is the primary source for announcements and materials related to this course. Please check it regularly.

2. Students are expected to be familiar with the university policy on *Academic Integrity and Student Responsibility* found in the 2007-2008 University Calendar (pp. 22–30). There is to be no talking or joint work during quizzes, midterms or exams, unless such activity is explicitly allowed by the instructor. Copying work from another student is always prohibited and offenders will be subject to academic discipline. Note that the penalties for academic offences are quite serious (e.g., a failing grade in the course, required withdrawal for an academic term or year, expulsion from the University, loss of scholarships and bursaries).

3. Students who need support to help lessen the impact of a disability should contact The Atlantic Centre for Students with Disabilities at the beginning of the term.

4. Each quiz is mandatory. Any missed quiz will receive a score of zero, unless a proper medical or compassionate excuse is provided. Do not make travel plans that conflict with quiz times.

5. Since a number of topics we will discuss are not found in the text, your attendance in lectures is strongly recommended.