Lakehead University

Department of Mathematical Sciences

MATH 1171 – CALCULUS I

COURSE OUTLINE

Instructor: Dr. Deli Li
Office: RB-2003
Phone: (807)343-8231
E-mail address: dli@lakeheadu.ca

Description: Basic properties of the real number system; limits and continuity of functions; derivatives and differentiation formulas; applications of derivatives; anti-derivatives, definite integrals, indefinite integrals; Fundamental Theorem of Calculus; u-substitution.

Credit Weight: **0.5**

Prerequisite: MHF4U or permission of the Chair of the Department of Mathematical Sciences

Textbooks:

Book 1   **Calculus: One and several variables, 10th Edition**
by S. Salas, G. Etgen, E. Hille
MATH-1171 will cover Chapters 1-5.

Book 2   **Student Solution Manual for Book 1**

Lectures: **Monday, Wednesday, and Friday 10:30 a.m. – 11:30 a.m. in BB1075** for MATH-1171-FA
Monday, Wednesday, and Friday 11:30 a.m. – 12:30 p.m. in UC0050 for MATH-1171-FB
Pre-reading related sections in the textbook is expected.

Labs: **Friday 2:30 p.m. – 3:30 p.m. in UC0050**
During the lab hours, you will meet your instructor and ask questions about the course materials and even get help to finish your assignments.

Office Hours: **Tuesday & Thursday 1:30 p.m. - 4:30 p.m. or by appointment.** For an appointment, please email the instructor.

Course Requirements

Assignments: A list of assignment problems will be given to students during each Wednesday class period and are due on the Friday of the following week prior to 6:00 p.m. Assignments should be dropped in the MATH-1171 Assignment Box on the second floor of Ryan Building before the due time. Late assignments will not be marked under any circumstances. Sloppy writing may face a mark penalty up to 20%. There will be approximately 12 assignments worth 20% of your final mark. Solutions to the problems will be distributed by e-mail.

Midterm Exam: The midterm exam will be written in the classroom during the regular class time on **Wednesday 02 November 2011. The exam will be closed book with no calculators or other aids allowed. No make-up test is provided for any student who misses writing the midterm exam at the scheduled time**. If there is a legitimate (documented) reason, the final mark will be calculated on the basis of the final exam. Otherwise, a grade of **0%** for the missed exam will be averaged with other grades. The material the midterm exam will cover will be announced in class as the date draw near.

Final Exam: The final exam will be written in the scheduled three hours. **The exam will be closed book with no calculators or other aids allowed. The final exam will cover the whole course.** Further details will be provided closer to the exam dates.

Determination of Final Marks: The basic formula is as follows

Assignments: **20%**
Midterm Exam: **20%**
Final Exam: **60%**

Marking Disputes: If you feel you have been treated unfairly in the marking of the midterm exam or an assignment, **put your complaint in writing on the front of the paper and return it to the instructor**. Do not put it back in the Assignment Box.

Drop Date: The final date to withdraw from this course without academic penalty is Friday 04 November 2011.

Academic Dishonesty: All cases of academic dishonesty will be dealt with according to the University's Code of Student Behaviour and Disciplinary Procedures, copies of which are available from the Registrar.