Lakehead University

Department of Mathematical Sciences

MATH-2311-WA – Elementary Statistical Methods – 2015 Winter

COURSE OUTLINE

Instructor: **Dr. Deli Li,   RB-2003, Ext. 8231,** dli@lakeheadu.ca

<u>Notes</u>:   **If you e-mail me, please put "MATH-2310" in the Subject line so I can tell that your email is not spam.**

<u>Textbooks</u>:   *Statistics*, **12th Edition** by **James T. McClave** and **Terry Sincich.**
Optional: **Student's Solution Manual.**

<u>Prerequisite</u>:   **MATH-2310**

<u>Credit Weight</u>:   **0.5** (Not recognized as a mathematics credit for Mathematics or Computer Science majors.)

<u>Description</u>:
This course is an introduction to the elementary statistical methods. Techniques include estimation, tests of hypothesis, linear regression and correlation, multiple regression, analysis of variance (ANOVA), analysis of categorical data, topics in experimental design, and basic nonparametric statistics. Basically this course will cover Chapters 6, 8, 9, 10, 12, 13, 14, and some sections of Chapter 11. The instructor reserves the right to add or delete sections to the list.

<u>Lectures</u>:
Wednesday & Friday 11:30 AM - 01:00 PM in AT-1001
Attending lectures is not compulsory. According to historical records, however, there is a positive correlation between the regular lecture attendance and the final course mark. Pre-reading related sections in the textbook is expected.

<u>Labs</u>:
Monday 12:30 PM - 01:30 PM in AT-1001
During the lab hours, you will meet your instructor and ask questions about the course materials and even get help to finish your assignments. If there is no student showing up during the first 5 minutes, this Q's and A's will be moved to the instructor's office (RB2003).

Office Hours:

Monday & Wednesday 02:00 PM - 04:30 PM or by appointment. For an appointment, please email the instructor.

Problems that you are having with the course should be either **a)** given to your instructor in class, or **b)** left in Dr. Deli Li's mail-box in the Math Secretary's office RB-2012. If you are having a problem then most likely other people in the class are having the same problem, thus it will be worth to take class time to discuss the problem. If I don't discuss your problem in the lecture to your satisfaction please come and see me in my office during the office hours.

Performance Evaluation

Six Assignments (20%):

A list of assignment problems will be emailed you. It will be your own interest to try to work on the problems yourselves. Solutions to some selected problems will be discussed in the labs. For this reason it is in your interest to attend your labs. Assignments should be dropped in the **MATH-2311** assignment box on the second floor of Ryan Building before the due time. All assignments, hand written or printed, should have a cover page with information including: course number, assignment number, student's name, and student's ID number. **Late assignments will not be marked under any circumstances. Sloppy writing may face a mark penalty up to 20%.** Each student's lowest assignment mark will be dropped for the final mark calculation.

Midterm Exam (25%):

The midterm exam will be written during the regularly scheduled class time on **Friday 13 February 2015 (11:30 AM - 01:00 PM in AT-1001)**. **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) excuse, 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.

Final Exam (55%):

The final exam will be written in the scheduled three hours. It will cover all of the course material. Further details will be provided closer to the exam date.

Notes: Exams will be open books and a non-programmable calculator is allowed.

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 06 March 2015.

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.