

# Lakehead University

Department of Mathematical Sciences

**MATH 2331 FA -- Introduction to Mathematical Probability – Fall 2011**

## **COURSE OUTLINE**

**Instructor: Dr. Deli Li, RB-2003, Ext. 8231, [dli@lakeheadu.ca](mailto:dli@lakeheadu.ca)**

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**Description:** A mathematical introduction to the theory and application of probability. Topics may include distributions and their properties, limit theorems, expectation and simulations. Basically this course will cover Chapters 1- 6. The instructor reserves the right to add or delete sections to the list.

**Credit Weight:** 0.5

**Prerequisite:** MATH-1180

**Textbooks:** **Book 1** Introduction to Probability and Statistics, 4<sup>th</sup> Edition,  
by J. S. Milton and Jesse C. Arnold.

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

**Lectures:** **Monday and Wednesday 02:30 p.m. – 04:00 p.m. in RB-3044.**  
Pre-reading related sections in the textbook is expected.

**Labs:** **Monday 09:30 a.m. – 10:30 a.m. in RB-1021**  
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-2331 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 6 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. 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 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

|                      |            |
|----------------------|------------|
| <b>Assignments:</b>  | <b>20%</b> |
| <b>Midterm Exam:</b> | <b>30%</b> |
| <b>Final Exam:</b>   | <b>50%</b> |

**Note: Exams will be open book 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 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.