

and geometric distributions, the hypergeometric distribution, the Poisson distribution, the multinomial distribution, the uniform distribution, the gamma, exponential, and chi-square distributions, the beta distribution, the normal distribution.

- Find probabilities by using the normal approximation to the binomial distribution.
- Find the probability distributions of some simple functions of random variables.
- Explain and use the law of large numbers and the central limit theorem.

Lectures:

Mondays & Wednesdays 5:30 PM – 7:00 PM (03 Sep. - 03 Dec. 2024) in AT-2004

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.

Labs:

Tuesdays 4:30 PM – 5:30 PM (03 Sep. - 03 Dec. 2022) in RB-1022

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:

Tuesdays & Thursdays 01:30 PM – 2:30 PM or by appointment

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 mailbox in the Math Department 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 taking 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 office hours.

Course Requirements

Six Assignments (20%):

Each set of assignment problems and their due dates will be posted on the D2L website of MATH-3332-FA

It will be in 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 highly recommended that you attend your labs. Assignments should be uploaded and submitted on the D2L website of MATH-3332-FA. **Only one pdf file per assignment is allowed to upload to the D2L assignment folder. Each assignment pdf file 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%.**

Midterm Exam (25%):

The midterm exam will be written during the regularly scheduled class time (5:30 PM – 7:00 PM) in AT-2004 on Wednesday 23 October 2024. No make-up test is provided for students who miss writing the midterm exam at the scheduled time. If there is a legitimate (documented) excuse, the final mark will be calculated based on 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, **email your complaint to Dr. Deli Li at dli@lakeheadu.ca**

Drop Date: The final date to withdraw from this course without academic penalty is Friday 08 November 2024.

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.

Notes: Lakehead University is committed to achieving full accessibility for persons with disabilities. Part of this commitment includes arranging academic accommodation for students with disabilities and/or medical conditions to ensure they have an equitable opportunity to participate in all of their academic activities. If you are a student with a disability and think you may need accommodations, you are strongly encouraged to contact Student Accessibility Services (SAS) and register as early as possible. For more information, please contact Student Accessibility Services <http://studentaccessibility.lakeheadu.ca> (SC-0003, 343-8047 or sas@lakeheadu.ca)