Department of Mathematics & Statistics
Concordia University

STAT 349
Probability II
Fall 2025

Instructor*: _____

Office/Tel No.: _____

Office Hours: _____

*Students should get the above information from their instructor during class time. The instructor is the person to contact should there be any questions about the course.

Textbook: *Introduction to Probability Models,* 12th Edition, by Sheldon M. Ross.
The e-textbook link is available on the course Moodle site.

Assignments: There will be about **five** assignments. Assignments and their due dates will be provided via the course Moodle site; students are required to submit each assignment as a single pdf file on Moodle. **Late assignments will not be accepted.**

Midterm Test: There will be one term exam, in class, in **the 8th week of lectures (date TBA)**.

NOTE: It is the Department's policy that tests missed for any reason, **including illness,** cannot be made up. If you miss the midterm test **because of illness** (Short-Term Absence form **required**); the final exam can count for 90% of your final grade with 10% for homework.

Final Exam: The final exam will be given during the period assigned by Concordia's Exams Office. The exam will be closed book (no notes) and comprehensive (all sections listed on the course outline for the semester).

PLEASE NOTE: Students are responsible for finding out the date and time of the final exams once the schedule is posted by the Examinations Office. Conflicts or problems with the scheduling of the final exam must be reported directly to **the Examinations Office**, **not to your instructor**. It is the Department's policy and the Examinations Office's policy that **students are to be available until the end of the final exam period.** Conflicts due to travel plans will not be accommodated.

Grading: The final grade will be based on the higher of (a) or (b):
a) Homework (10%), term exam (20%), and the final exam (70%).
b) Final exam (100%).

If the grading scheme for this course includes graded assignments, a reasonable and representative subset of each assignment may be graded. Students will not be told in advance which subset of the assigned problems will be marked and should therefore attempt all assigned problems.

Expectations: In order to obtain a good grade, the students **MUST** show that they have a **THOROUGH UNDERSTANDING** of the subject matter and can **FULLY EXPLAIN** the **REASONING PROCESS** used in their problem solutions.

Calculators: Only calculators approved by the Department (with a sticker attached as proof of approval) are permitted for the class test and final examination. See https://www.concordia.ca/artsci/math-stats/services.html#calculators
Using a calculator is NOT necessary for solving problems during exams.

Topics Covered: This course will cover most of the materials in the first six chapters as follows (week-by-week timeline is approximate, adjustments will occur):

Week	Topics to be covered
1	Section: 1.1-1.5, 2.1-2.6
2	Section: 3.1, 3.2, 3.3, 3.4
3	Section: 3.5, 3.6
4	Section: 4.1, 4.2, 4.3
5	Section: 4.3, 4.4
6	Section: 4.5, 4.6 (some examples)
11 – 17 Oct.	**Reading Week**
7	Section: 5.1, 5.2
8	Section: 5.2, 5.3
9	Section: 5.3, 5.4
10	Section: 6,1, 6.2, 6.3
11	Section: 6.4, 6.5
12	Section 6.5, Review

Student Services
You may wish to access the many services available to you as a Concordia student. An overview of these resources can be found here: https://www.concordia.ca/students/services.html

Academic Integrity and the Academic Code of Conduct
This course is governed by Concordia University's policies on Academic Integrity and the Academic Code of Conduct as set forth in the Undergraduate Calendar and the Graduate Calendar. Students are expected to familiarize themselves with these policies and conduct themselves accordingly. "Concordia University has several resources available to students to better understand and uphold academic integrity. Concordia's website on academic integrity can be found at the following address, which also includes links to each Faculty and the School of Graduate Studies: https://www.concordia.ca/conduct/academic-integrity.html" *[Undergraduate Calendar, Sec 17.10.2]*

Behaviour
All individuals participating in courses are expected to be professional and constructive throughout the course, including in their communications.
Concordia students are subject to the Code of Rights and Responsibilities which applies both when students are physically and virtually engaged in any University activity, including classes, seminars, meetings, etc. Students engaged in University activities must respect this Code when engaging with any members of the Concordia community, including faculty, staff, and students, whether such interactions are verbal or in writing, face to face or online/virtual. Failing to comply with the Code may result in charges and sanctions, as outlined in the Code.

Intellectual Property
Content belonging to instructors shared in online courses, including, but not limited to, online lectures, course notes, and video recordings of classes remain the intellectual property of the faculty member. It may not be distributed, published or broadcast, in whole or in part, without the express permission of the faculty member. Students are also forbidden to use their own means of recording any elements of an online class or lecture without express permission of the instructor. Any unauthorized sharing of course content may constitute a breach of the Academic Code of Conductt and/or the Code of Rights and Responsibilities. As specified in the Policy on Intellectual Property, the University does not claim any ownership of or interest in any student IP. All university members retain copyright over their work.

Extraordinary circumstances
In the event of extraordinary circumstances and pursuant to the Academic Regulations the University may modify the delivery, content, structure, forum, location and/or evaluation scheme. In the event of such extraordinary circumstances, students will be informed of the change.