

Carleton University
School of Mathematics and Statistics
STAT 2655 A – *Introduction to Probability with Applications* – Fall 2021

Instructor: Dr. Wayne Horn, wayne.horn@carleton.ca

Lectures: Lecture slides and pre-recorded videos will be posted weekly on Brightspace. A tentative lecture schedule can be found at the end of this syllabus.

Tutorials: Refer to the [public class schedule](#) for tutorial times and locations. The purpose of the tutorials is for you to work through additional exercises with the Teaching Assistant. Tutorials will begin on the week of September 20.

Office Hours: Office hours will be posted on Brightspace on the main course page.

Textbook: *Mathematical Statistics with Applications, 7th Edition*, Wackerly, Mendenhall, and Scheaffer.

Prerequisites: MATH 2052 with a grade of C+ or higher or MATH 2007 or MATH 1005 with a grade of B+ or higher; and MATH 2152 with a grade of C+ or higher or MATH 2107 with a grade of B+ or higher.

Grading Scheme: Assignments 20%, Midterm Exam 30%, Final Exam 50%

Assignments: There will be five (5) assignments each counting equally toward the term mark. The tentative due dates for the assignments are **September 29, October 13, November 3, November 17, and December 1**. No late assignments will be accepted.

Midterm Exam: There will be a **2-hour midterm** starting at **9:00am** on **Saturday, November 6**. The exam will cover the material listed under weeks 1 through 7 of the syllabus.

Final Exam: There will be a **3-hour cumulative final exam** scheduled by the university. The final exam period runs from **December 11 – 23**.

Calculators: Only a non-programmable calculator may be used for the midterm and final exams.

Academic Integrity: Students are required to be familiar with the [Academic Integrity Policy at Carleton University](#). Students who violate the standards of academic integrity relating to any coursework will be required to meet with the Associate Dean of Science.

ADDITIONAL COURSE POLICIES:

1. Concerns about grading on any assignment or exam must be brought to my attention within three business days of the completion of grading.
2. Students who need to miss an assignment submission or an exam for a valid reason must complete and submit the [self-declaration form](#) prior to the assessment in order to receive accommodation. In the case of an assignment or the midterm exam, the form must be submitted to the instructor. In the case of the final exam, the form must be submitted to the Registrar's Office. For a missed assignment, the weight of the assignment will be added to the weight of the relevant exam. For a missed midterm exam, the student will be offered a deferred exam, approximately two weeks after the original exam in the case of the midterm exam. Deferred final exam scheduling is at the discretion of the University. **NOTE:** You cannot defer a deferred exam.
3. **Students are required to obtain a minimum score of 50% on each of the midterm exam and final exam.** Students who fail to do so will automatically be assigned a grade of F in the course. Exceptions to this rule may be made at the discretion of the instructors.
4. **Students are required to submit and obtain a minimum grade of 50% on at least three of the five assignments.** Students who fail to do so will automatically be assigned a grade of F in the course. Exceptions to this rule may be made at the discretion of the instructors.

5. Any student wishing to review their final exam must make an appointment within a two week period following the submission of the final grades. These appointments are solely for educational purposes and are **not** to be treated as an opportunity to debate your grade.
6. All assignments and exams in the course will be submitted online. A document entitled *Submission Instructions* will be posted on the course page in Brightspace. Any submissions not following the *Submission Instructions* will not be accepted for credit.
7. You must use your Carleton email account for all email communications. I am unable to respond to non-Carleton emails due to FIPPA (Freedom of Information and Protection of Privacy Act).|

Requests for Academic Accommodation

You may need special arrangements to meet your academic obligations during the term. For an accommodation request, the processes are as follows:

Pregnancy obligation

Please contact your instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details, visit the Equity Services website: carleton.ca/equity/wp-content/uploads/Student-Guide-to-Academic-Accommodation.pdf

Religious obligation

Please contact your instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details, visit the Equity Services website: carleton.ca/equity/wp-content/uploads/Student-Guide-to-Academic-Accommodation.pdf

Academic Accommodations for Students with Disabilities

If you have a documented disability requiring academic accommodations in this course, please contact the Paul Menton Centre for Students with Disabilities (PMC) at 613-520-6608 or pmc@carleton.ca for a formal evaluation or contact your PMC coordinator to send your instructor your Letter of Accommodation at the beginning of the term. You must also contact the PMC no later than two weeks before the first in-class scheduled test or exam requiring accommodation (if applicable). After requesting accommodation from PMC, meet with your instructor as soon as possible to ensure accommodation arrangements are made. carleton.ca/pmc

Survivors of Sexual Violence

As a community, Carleton University is committed to maintaining a positive learning, working and living environment where sexual violence will not be tolerated, and is survivors are supported through academic accommodations as per Carleton's Sexual Violence Policy. For more information about the services available at the university and to obtain information about sexual violence and/or support, visit: carleton.ca/sexual-violence-support

Accommodation for Student Activities

Carleton University recognizes the substantial benefits, both to the individual student and for the university, that result from a student participating in activities beyond the classroom experience. Reasonable accommodation must be provided to students who compete or perform at the national or international level. Please contact your instructor with any requests for academic accommodation during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. <https://carleton.ca/senate/wp-content/uploads/Accommodation-for-Student-Activities-1.pdf>.

TENTATIVE LECTURE SCHEDULE

WEEK	DATES	TEXTBOOK SECTIONS
1	Sept 8 – 10	Introduction/Chapter 1
2	Sept 13 – 17	2.1, 2.2, 2.3, 2.4, 2.5, 2.6
3	Sept 20 – 24	2.7, 2.8, 2.9, 2.10
4	Sept 27 – Oct 1	2.11, 3.1, 3.2, 3.3, 3.4, 3.5
5	Oct 4 – 8	3.6, 3.7, 3.8, 3.9, 3.10
6	Oct 11 – 15	4.1, 4.2, 4.3, 4.4, 4.5
7	Oct 18 - 22	4.6, 4.7, 4.9, 4.10, 3.11
N/A	Oct 25 – 29	FALL BREAK WEEK
8	Nov 1 – 5	5.1, 5.2, 5.3, 5.4, 5.5
9	Nov 8 – 12	5.6, 5.7, 5.8, 5.9, 5.10
10	Nov 15 – 19	5.11, 6.1, 6.2
11	Nov 22 – 26	6.3, 6.4, 6.5
12	Nov 29 – Dec 3	6.6, 7.1, 7.2
13	Dec 6 – Dec 10	7.3, 7.4, 7.5