

Carleton University
School of Mathematics and Statistics
STAT 2655 A – *Introduction to Probability with Applications* – Fall 2022

Instructor: Dr. Wayne Horn, wayne.horn@carleton.ca, 4352 Herzberg Laboratories

Lectures: Lectures will be held Mondays and Wednesdays from 1:05pm – 2:25pm in C264 Loeb Building.

Tutorials: Starting September 19, tutorials will be held on Mondays from 10:35am – 11:25am in 516 Southam Hall.

Office Hours: Office hours will be posted on Brightspace on the main course page and held through Zoom.

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

Prerequisites: MATH 1002 or MATH 2007 with a grade of C+ or better, and MATH 1102 or MATH 2107 with a grade of C+ or better.

Grading Scheme: Quizzes 10%, Assignments 10%, Midterm Exam 30%, Final Exam 50%

Quizzes: There will be five (5) quizzes, each worth 2% of your final grade. Each quiz will examine material from two weeks of the lecture schedule, and will take place during the last 20 minutes of your tutorial.

TENTATIVE QUIZ SCHEDULE					
QUIZ	1	2	3	4	5
DATE	Oct 3	Oct 17	Nov 7	Nov 21	Dec 5
MATERIAL	Weeks 2, 3	Weeks 4, 5	Weeks 6, 7	Weeks 8, 9	Weeks 10, 11

Assignments: There will be five (5) assignments, each worth 2% of your final grade. Each assignment will examine material from two weeks of the lecture schedule. Assignments must be handwritten and not typed unless you have an accommodation from the Paul Menton Centre. Assignments are due at the time and location stated on the assignment and must adhere to the *Assignment Submission Regulations*.

TENTATIVE ASSIGNMENT SCHEDULE					
ASSIGNMENT	1	2	3	4	5
AVAILABLE	Sept 21	Oct 5	Oct 19	Nov 9	Nov 23
DUE	Sept 28	Oct 12	Nov 2	Nov 16	Nov 30
MATERIAL	Weeks 2, 3	Weeks 4, 5	Weeks 6, 7	Weeks 8, 9	Weeks 10, 11

Midterm Exam: A two-hour midterm exam will be held on Saturday, November 5 from 10am – 12pm. The exam will cover the material listed under Weeks 1 through 6 as listed in the tentative lecture schedule.

Final Exam: A three-hour cumulative final exam will be held sometime during the final exam period, December 10 – 22. The exact day, time, and location will be provided by the University.

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

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.

Requests for Academic Accommodation: You may need special arrangements to meet your academic obligations during the term. For accommodation requests, consult <https://students.carleton.ca/course-outline/>.

Academic Withdrawal: The last day for academic withdrawal is Tuesday, November 15. Please note that the compassionate grading policy from the previous two years (STAT/UNS) is no longer in effect.

Course Policies:

- Concerns about grading on assignments, tests, and the final exam must be brought to the instructor's attention within three business days of these grades being available for review. To avoid biased evaluation of a student's grade, individual questions will not be regraded. However, you may request a complete regrade of an entire assignment, a test, or the final exam. Please note a regrade may result in an increase, decrease, or no change in your grade.
- Regarding assignments and quizzes, you may miss up to three (3) of the ten (10) assessments for legitimate reasons (e.g. illness, death of a family member, etc.). The weight of these missed assessments will automatically be shifted to the final exam. Note that this policy will not replace a grade of 0 that is a result of violating Carleton University's Academic Integrity Policy.
- Students who need to miss the midterm exam for a valid reason must complete the [self-declaration form](#) and submit it to the instructor prior to the exam in order to receive accommodation. Students who need to miss the final exam for a valid reason must [apply for a deferred exam](#) through the Registrar's Office. Deferred final exam scheduling is at the discretion of the University. **NOTE:** You cannot defer a deferred exam.

4. You must use your Carleton email account for all email communications. I am unable to respond to non-Carleton emails due to the Freedom of Information and Protection of Privacy Act. I typically respond to emails on weekdays during business hours. While I may respond outside of those hours, please do not expect it. Please allow up to two business days for a response.
5. Any student wishing to review their final exam must make an appointment during the week following the deferred final exam. These appointments are solely for educational purposes and are **not** to be treated as an opportunity to debate your grade.
6. **Students are required to obtain a minimum score of 50% on the final exam.** Students who fail to do so will be assigned a grade of **F** in the course. Exceptions can be made at the discretion of the instructor.
7. Students whose final exam percentage grade exceeds their midterm exam percentage grade will have their final exam be worth 80% of their final grade. Note that this policy will not replace a midterm exam grade that was lowered due to violating Carleton University’s Academic Integrity Policy.

TENTATIVE LECTURE SCHEDULE		
WEEK	DATES	TEXTBOOK SECTIONS
1	Sept 7 – 9	Introduction/Chapter 1
2	Sept 12 – 16	2.1, 2.2, 2.3, 2.4, 2.5, 2.6
3	Sept 19 – 23	2.7, 2.8, 2.9, 2.10
4	Sept 26 – 30	2.11, 3.1, 3.2, 3.3, 3.4, 3.5
5	Oct 3 – 7	3.6, 3.7, 3.8, 3.9
6	Oct 11 – 14	4.1, 4.2, 4.3, 4.4, 4.5
7	Oct 17 – 21	4.6, 4.7, 4.9, 4.10, 3.11
NO CLASSES OCTOBER 24 – 28		
8	Oct 31 – Nov 4	5.1, 5.2, 5.3, 5.4, 5.5
9	Nov 7 – 11	5.5, 5.6, 5.7, 5.8, 5.11
10	Nov 14 – 18	5.9, 5.10, 6.1. 6.2
11	Nov 21 – 25	6.3, 6.4, 6.5
12	Nov 28 – Dec 2	6.6, 7.1
13	Dec 5 – Dec 9	7.2, 7.3, 7.5