

MAST 333
Applied Statistics
Winter 2020

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Office Hours: Wednesdays, 13:30–15:30, or by appointment.

Text: *Introduction to Probability and Statistics*, 4th Canadian Edition, by W. Mendenhall (2017).

Calculators: Only calculators approved by the Department (with a sticker attached as proof of approval) are permitted in the class test(s) and final examination. The preferred calculators are the **Sharp EL 531** and the **Casio FX 300MS**, available at the Concordia Bookstore.

Final Grade:

- (a) Assignments (20%)
- (b) Midterm Test (32%) (**Friday, February 21, 2020**)
- (c) Final Exam (48%)

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.

Notes:

- (1) Assignments will be collected in class. Late assignments will not be accepted.
- (2) There will be no make up test. The final examination will cover everything taught in the course.
- (3) In order to obtain a good grade, you have to demonstrate a THOROUGH understanding of the subject and should be capable of PROVIDING basic results.
- (4) Please note that there are no supplemental privileges in this course.

Week	Chapters	Sections
1	Describing Data with Graphs	1.1-1.5
2	Describing Data with Numerical Measures	2.1-2.7
3	Introduction to Minitab & Describing Bivariate data	3.1-3.4
4	The Normal (Gaussian) Distribution	6.1-6.4
5	Sampling Distribution	7.2-7.7
6	Large Sample Estimation	8.1-8.9
7	Large Sample Tests of Hypothesis	9.1-9.7 MIDTERM TEST
8	Inference from Small Sample	10.1-10.8
9	The Analysis of Variance	11.1-11.5, 11.7-11.9
10	Linear Regression & Correlation	12.1-12.7
11	Correlation & Multiple Regression Analysis	12.8, 13.2-13.4
12	Multiple Regression & Analysis of Categorical data	13.6-13.7, 14.1-14.3
13	Categorical Data Analysis & Review	14.4-14.7

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: concordia.ca/students/academic-integrity." [Undergraduate Calendar, Sec 17.10.2]