

STAT 480 (MAST 678/MAST 881), Sec. AA
Statistical Consulting & Data Analysis
Winter 2022

Instructor: Dr. N. Ben Ghorbel, Office: LB 915-7 (SGW), Phone: 848-2424, Ext. 4385
Email: noomen.benghorbel@concordia.ca

Office Hours: Fridays, 14:30-16:30.

Text: i) Cody & Smith. Applied Statistics and the SAS Programming Language, 5th Edition. Pearson/Prentice Hall, 2006. **(required)**

Other References: i) SAS Online Doc Version 9.1.3 (included with SAS software package). Free download of the documentation is available from SAS website.

Final Grade: **Higher of two options:**

Option 1:

- (a) Assignments (20%)
- (b) Exams (25% [midterm] + 40% [final])
- (c) Final project (10%)
- (d) Participation (5%)

Option 2:

- (a) Assignments (20%)
- (b) Exam (65% [final])
- (c) Final project (10%)
- (d) Participation (5%)

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) Late assignments will not be accepted.
- 2) In order to obtain a good grade, the student **MUST** show that she/he has a **THOROUGH** understanding of the subject.

Week	Topics to be Covered
1	Introduction to SAS
2	Describing data
3	T-test and Nonparametric comparisons
4	Analysis of Variance
5	Categorical data
6	Correlation and linear regression
7	Midterm
8	Logistic regression
9	The SAS INPUT statement
10	External files: reading and writing raw and system files
11	Data set subsetting, concatenating, merging, and updating
12	Working with arrays
13	Project presentations

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]

Use of Zoom

Note: Zoom is included as an institutionally-approved technology. This means we have been assured of the privacy protections needed to use freely within the classroom)

Zoom will be used in this course to facilitate learning at a distance. It may be used to record some or all of the lectures and/or other activities in this course. If you wish to ensure that your image is not recorded, speak to your instructor as soon as possible.

Also, please note that you may not share recordings of your classes and that the instructor will only share class recordings for the purpose of course delivery and development. Any other sharing may be in violation of the law and applicable University policies, and may be subject to penalties.

Behaviour

All individuals participating in courses are expected to be professional and constructive throughout the course, including in their communications.

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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.