

STAT 480 (MAST 678/MAST 881), Sec. AA
Statistical Consulting & Data Analysis
Winter 2024

- Instructor:** Dr. L. Kakinami
Email: lisa.kakinami@concordia.ca
- Class Schedule:** Wednesdays, 17:45-20:15.
Note: There will be a mid-term break from February 24 to March 2.
- Office Hours:** Monday: 1:30pm-2:30pm; Friday: 11am-12pm.
- Text:**
- i) Delwiche & Slaughter. The Little SAS Book: A Primer, 6th Edition (older edition is OK). (**recommended**)
 - or*
 - ii) Cody & Smith. Applied Statistics and the SAS Programming Language, 5th Edition. Pearson/Prentice Hall, 2006. (**recommended**)
- 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: | Option 2: |
| (a) Assignments (15%) | (a) Assignments (15%) |
| (b) Exams (25% [midterm] + 40% [final]) | (b) Exam (65% [final]) |
| (c) Final project (15%) | (c) Final project (15%) |
| (d) Participation (5%) | (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.

Final Exam: To be scheduled by the Exams Office.

PLEASE NOTE: Students are responsible for finding out the date and time of the final exam once the schedule is posted by the Examination Office. Any conflicts or problems with the scheduling of the final exam must be reported directly to the Examination Office, **not** to your instructor. It is the Department's policy and the Examination 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.**

Week	Topics to be Covered
1	Introduction to SAS; in-stream data
2	External files; informats; creating new variables
3	Recoding data
4	Data subsetting, concatenating, merging, and updating
5	Describing data
6	Formats; arrays;
7	Midterm Macros
8	Hypothesis testing; Categorical data
9	Correlation; linear regression; variable selection
10	Logistic regression; interactions; model selection; sampling
11	Selected additional topics
12	Project presentations

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.

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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.