

**STAT 480 (MAST 678/881), Sec. AA**  
Statistical Data Analysis  
*Fall 2017*

**Instructor:** Dr. Lisa Kakinami, Office: LB 927-7 (SGW), Tel: 514-848-2424, Ext. 3397  
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**Office Hours:** Tuesdays, 3:00-5:00 p.m.

**Text:** i) *The Little SAS Book: A Primer*, 5th Edition, Lora Delwiche & Susan Slaughter, SAS Institute, 2012. **(Required)**

*Recommended (One of the following):*

- ii) Cody & Smith. *Applied Statistics and the SAS Programming Language*, 5th Edition. Pearson/Prentice Hall, 2006.
- iii) Walker & Shostak. *Common Statistical Methods for Clinical Research with SAS Examples*, 3rd Edition. SAS Institute, 2010.

**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	The SAS INPUT statement
3	External files: reading and writing raw and system files
4	Data set subsetting, concatenating, merging, and updating
5	Working with arrays
6	Describing data
7	Hypothesis testing
8	<b>Midterm</b>
9	Categorical data
10	Correlation and linear regression
11	Logistic regression
12	Reporting procedures
13	<b>Project presentations</b>

#### **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](http://concordia.ca/students/academic-integrity)." [Undergraduate Calendar, Sec 17.10.2]