Department of Mathematics & Statistics
Concordia University

> **STAT 480 (MAST 679/881AA)**
> Statistical Data Analysis
> ***Fall 2016***

Instructor: Dr. Lisa Kakinami, Office: LB 927-7 (SGW), Tel: 514-848-2424, Ext. 3397
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Office Hours: Tuesdays, 11:00-1:00 p.m.

Text:
i)   *The Little SAS Book: A Primer*, 5th Edition, Lora Delwiche & Susan Slaughter, SAS Institute, 2012. (**required**)
ii) *Applied Statistics and the SAS Programming Language*, 5th Edition, Ronald P. Cody & Jeffrey K. Smith, Upper Saddle River, NJ: Pearson/Prentice Hall, 2006. (**recommended**)

Other References:
i)   *A Handbook of Statistical Analyses using SAS* (2nd Edition), Geoff Der and Brian S. Everitt, Chapman & Hall/CRC (2002).
ii) SAS Online Doc Version 9.1.3 (included with SAS software package). Free download of the documentation is available from SAS website.

Final Grade:
(a) Assignments (20%)
(b) Two class Tests (25% [midterm] + 35% [final])
(c) Final Project (10%)
(d) Participation (10%)

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 and is good at problem solving.

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	**Midterm**
9	Categorical data
10	Correlation and linear regression
11	Logistic regression
12	Survival analysis + reporting procedures
13	**Project presentations**