Department of Mathematics & Statistics
Concordia University

MAST 333 (MATH 637)
Applied Statistics
Winter 2017

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

Text: *Introduction to Probability and Statistics*, 3rd Canadian Edition, by W. Mendenhall, R. J. Beaver and B. M. Beaver, S. E. Ahmed (2014).

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.

Recommended: MINITAB Student Version 14 for Windows Software and manual available bundled with the text.

Final Grade: (a) Assignments (20%)
(b) Midterm Test (32%) (**Friday, 24 February 2017**)
(c) Final Exam (48%)

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