

**Statistics 2500: Statistics for Business and Arts Students**  
**Section 001: Fall 2009**  
**Slot 20: Tues., Thurs. 3:30–4:45 IIC–2001**

**Instructor:** Gary Sneddon, HH-3057. phone: 737-8069.

**Email:** gsneddon@mun.ca

**Webpage:** [www.math.mun.ca/~sneddon/st2500](http://www.math.mun.ca/~sneddon/st2500)

**Office Hours:** Mondays 2pm–3:30pm, Wednesdays 9:30–11:00am, Thursdays 1:30pm–3:00pm or by appointment. **I am unavailable on Fridays before 1pm.**

**Textbook:** *Elementary Statistics*, Canadian Edition, by Bluman and Mayer.

The textbook will be placed on reserve in the library.

**Prerequisite:** M1000 or six credit hours in first year courses in Mathematics or registration in at least semester 3 of a B.N. programme or permission of the head of the department.

**Course Evaluation** Three Quizzes 18%  
Three Assignments 12%  
Midterm Exam 20%  
Final Exam 50%

**Notes:**

1. No textbooks will be allowed for any quizzes or exams. A formula sheet and any necessary tables will be provided to you for the midterm and final exams.
2. The quizzes will be held during the last 45 minutes of the lab sessions during the weeks indicated on the class schedule. No makeup quizzes will be allowed.
3. The midterm exam will be held in class on **THURSDAY, OCT. 22**. No makeup midterm exam will be allowed. However, given a valid medical excuse, the value of the midterm exam will be transferred to the final exam, *i.e.* the final exam would be worth 70%.
4. The final exam (2 hours in length) will cover the entire course.
5. Assignments will usually involve written solutions and problems done with the statistical package Minitab for Windows. The use of Minitab will be covered in the lab sessions. The due dates for the assignments will be specified on the assignment handouts. Late assignments will be accepted **with penalty**: the assignment will lose 10% of its value if one day late, and 20% of its value if two days late. Assignments that are more than two days late will be given a grade of 0.
6. **Calculators:** You only need a basic scientific calculator (about \$8 at Staples). Make sure it can do exponents (stuff like  $2^4$ ) and factorials (a key that looks like  $x!$  or  $n!$ ). If you have a \$700 calculator, don't ask me for instructions on how to use it!
7. Credit can be obtained for only one of ST2500, ST2510, ST2550, and Psychology 2900.

**Deferred Examination Policy:**

A deferred examination will normally be granted only if it is the middle of three exams within 24 hours, or in cases of bereavement or serious medical problems. Application forms for deferrals are available from the General Office of the Department of Mathematics & Statistics (HH-3003).

**Supplemental Exam:** A supplemental exam is allowed in this course. Please check the University Calendar for the regulations. Essentially, you need a term grade of at least 50%, and have a final grade in the course in the 45–49 range. **YOU MUST APPLY TO WRITE A SUPPLEMENTAL EXAM WITHIN 5 DAYS OF FINAL GRADES BEING RELEASED. I WILL NOT CONTACT YOU TO INFORM YOU THAT YOU CAN WRITE A SUPPLEMENTAL EXAM.**

**PHOTO ID REQUIREMENT:** You will be required to show one piece of official photo ID (driver’s license, MUN ID, passport) when writing your midterm and final exams.

**Statistics Help Centre Hours:** Will be announced in class.

**Lab Sessions**

Section	Slot	Time	Start Date	Instructor
002	41A	Mon. 9–10:30am	Sept. 21	TBA
003	41B	Mon. 10:30am-noon	Sept. 21	TBA
004	61B	Mon. 3:30–5:00pm	Sept. 21	TBA
005	62A	Tues. 1:50–3:20pm	Sept. 22	TBA
006	43A	Wed. 9–10:30am	Sept. 16	TBA
007	43B	Wed. 10:30–noon	Sept. 16	TBA
008	62A	Thurs. 1:50–3:20pm	Sept. 17	TBA
009	45A	Fri. 9:00–10:30am	Sept. 18	TBA
010	45B	Fri. 10:30–noon	Sept. 18	TBA
011	65A	Fri. 2:00–3:30pm	Sept. 18	TBA
012	65B	Fri. 3:30–5:00pm	Sept. 18	TBA

All lab sessions will be held in CS-1009 (building #16 on the MUN campus map), and will start on the dates indicated. Lab instructors will be announced in class.

**Computer Accounts:** The computers in CS-1009 use the same username and password as the computers in the library, and those in the computer lab in the Chemistry building. If you **do not** have a computer account for these machines, please go to the help desk in the library or in the Chemistry lab (C-2003). Show them your student ID, and they will create your account. Please do this **before** your first lab session.

**Minitab on Campus:** CS-1009 is only available during our lab sessions. It is not a public access lab. If you want to use Minitab outside of your lab session, it is available in **HH3030, HH3056** (computer labs in the math dept.) and **C2003, C2004** (computer labs in the chemistry building). **Minitab is not available in the library.**

### TENTATIVE COURSE SCHEDULE

Week	Date	Topic, Section in Text
1	Sept. 10	1-2 Descriptive, Inferential Statistics 1-3 Variables, Types of Data 1-4 Data Collection
2	Sept. 15, 17	2-2 Organizing Data (frequency distributions) 2-3 Histograms; Distribution Shapes 2-4 Stem and Leaf Plots 3-2 Measures of Central Tendency 3-3 Measures of Variation
3	Sept. 22, 24	3-4 Measures of Position 3-5 Boxplots 4-2,3 Sample Spaces, Probability, Basic Rules 4-4 Multiplication Rule, Conditional Probability <b>Assignment #1 given out</b>
4	Sept. 29, Oct. 1	5-2 Probability Distributions 5-3 Mean, Variance, Standard Deviation 5-4 Binomial Distribution
5	Oct. 6, 8	6-2 Properties of Normal Distribution 6-3 The Standard Normal Distribution <b>Quiz #1 during lab sessions</b> <b>Assignment #2 given out</b>
6	Oct. 13, 15	<b>OCT. 13: NO CLASS (FALL BREAK)</b> <b>OCT. 12, 13: NO LABS (FALL BREAK)</b> 6-4 Applications of Normal Distribution
7	Oct. 20, 22	6-5 The Central Limit Theorem <b>MIDTERM TEST: OCT. 22</b>
8	Oct. 27, 29	7-2, 7-3 Confidence Interval for Mean; sample sizes 7-4 Confidence Intervals for Proportions <b>Assignment #3 given out</b>
9	Nov. 3, 5	8-2 Steps in Hypothesis Testing <b>Quiz #2 during lab sessions</b>
10	Nov. 10, 12	8-3 z-Test for a mean; p-values 8-4 t-Test for a mean <b>THIS WEEK ONLY: TUES. = THURS., FRI. = MON.</b>
11	Nov. 17, 19	8-5 z-Test for a proportion 9-2, 4, 5 Testing the difference between two means <b>Quiz #3 during lab sessions</b>
12	Nov. 24, 26	9-2, 4, 5 Testing the difference between two means (cont'd) 10-2 Scatter Plots
13	Dec. 1, 3	10-3, 10-4 Correlation and Regression 10-5 Standard error of estimate <b>Dec. 3: LAST DAY OF CLASSES FOR THIS COURSE</b>