



**ECO 220 *Statistics for Business and Economics* (3)
Fall 2006**

Class Schedule:

Term: September 6th to December 12th, 2006

Tuesdays: 2:30 pm to 3:45 pm

Thursdays: 2:30 pm to 3:45 pm

Classroom: Room 519

Instructor:

Don Liteplo

Office: Room 637

Office Telephone: 410-2000 (Extension 6907)

E-Mail Address: dliteplo@auc-nuc.ca

Office Hours:

Wed. Thurs. Fri.: 11:00 – 12:00

Tues. Thurs.: 1:00 – 2:00

Course Description:

This course provides Canadian business students majoring in economics, finance, marketing, accounting, management, and other fields of business administration with an introductory survey of many business applications of descriptive and inferential statistics. The main purpose of the course is to provide students with skill in the interpretation of common types of statistical information and with practice in making effective judgements and decisions based on the interpretation.

Required Textbook:

Lind, Douglas A. et al, *Basic Statistics for Business and Economics*, Second Canadian Edition, McGraw-Hill Ryerson, 2006.

Other Materials:

A portion of the course will involve computer use. The textbook includes a statistical program (MegaStat – Student Version 9.0) on a CD which is bundled with the textbook. This program may be installed *at no extra cost* on the student's personal computer. MegaStat is also installed on several Campus computers available to students. Students will be required to complete some assignments using the MegaStat program. Students may wish to obtain information from the instructor in the first week before deciding whether or not to install the statistical program on his/her personal computer.

Additionally, while a hand-held electronic calculator *with statistical functions* is not required, students will find that using such a tool will considerably reduce time spent in calculations. This is especially helpful when handling assignments and writing quizzes and examinations. While a particular calculator (make and model) cannot be specified, it is recommended that any such calculator purchased should have statistical capabilities similar to the TI BA II Plus or the HP 10B. Again, students may wish to obtain information from the instructor during the first week before deciding whether or not to acquire a hand-held electronic calculator *with statistical functions*. Note that the course instructor will endeavour to assist students in calculator applications, and can provide considerable assistance with the two above-named calculators but, because of the wide variety of calculators in use, each student is ultimately responsible for knowing how to use the calculator that he/she brings to the course.

Policy on Class Attendance:

A student's final course grade is not based upon the student's attendance record; however, the general expectation is that students will attend all classes in which they are registered. A combination of low academic performance and notable absences from class may be brought to the attention of program administrators.

Course Requirements:

Student performance will be evaluated in a combination of graded assignments, quizzes, midterm examination, and final examination. Mark allocation is as follows:

Three Assignments	18% (6% each)
Two Quizzes	16% (8% each)
Midterm Examination	26%
Final Examination	<u>40%</u>
	100%

Students need not receive a passing grade on all components of term work and examinations in order to pass the course. However, failure to submit an assignment or write a quiz/examination, without the prior approval of the instructor, may result in an F grade for the course.

Assignments/Quizzes:

Some of the assignments/quizzes may be take-home papers. Deadlines for completion and submission of these will be clearly indicated in advance.

Take-home assignments/quizzes submitted after the due date will be penalized by 50%, but if submitted after answer keys have been posted, or after any of the

graded materials have been returned to any students, a grade of 0% will be awarded.

All assignments, quizzes, and examinations must include the student's name, student ID number, and mailbox number.

Note that in order for a student to be eligible to write the final examination, he/she must submit all take-home papers by the last day of lectures and must have written all in-class assignments/quizzes on the scheduled dates. The mark for an in-class assignment or quiz which is missed *with a legitimate reason* (typically illness, evidenced by a Doctor's note) will, at the discretion of the instructor, be spread across (transferred to) the other assignments/quizzes. This will be discussed at the start of classes.

The Midterm Examination:

The midterm examination will be 1 1/4 hours (75 minutes) in length. It will be written during regular class time *per the Detailed Course Schedule*.

A grade of 0% will be awarded for a midterm examination missed *without a legitimate reason*. If the midterm examination is missed *with a legitimate reason*, a make-up midterm examination will be arranged within one week. If the instructor determines that this arrangement is not practical, the final grade will be reallocated as follows:

Three Assignments	24% (8% each)
Two Quizzes	20% (10% each)
Final Examination	<u>56%</u>
	100%

The Final Examination:

The final examination will be comprehensive (i.e., can cover any materials included in the course during the semester, but emphasis will be on the material covered in the last half of the course). The final examination will be three (3) hours in length. The exact date and time for writing will be set by the Registrar. The final examination will be written during the final examination period – December 15th to 20th, 2006 - following the last day of classes. It is the student's responsibility to ensure that he/she does not have any conflicting commitments during the final examination period.

Graded final examinations will be available for supervised review at the request of the student. Please contact the Academic Dean.

Other Requirements:

A detailed Course Schedule will be handed out in the first week of the semester. This schedule will set out the topics, dates, and times for the lectures, and will also show the dates and times for assignments, quizzes, and midterm examination. The dates and times are subject to change at the instructor's discretion as the course progresses; changes, if any, will be few and will be communicated in advance.

Students are required to read the relevant chapters in the textbook in order to be prepared for the classroom lectures, discussion, and problem-solving.

It is the responsibility of all students to become familiar with and adhere to the academic policies contained in the Student Handbook and Academic Calendar.

Grading:

The available letters for course grades are as follows:

<u>% Grade</u>	<u>Letter Grade</u>	<u>Description</u>
95% to 100%	A+	
90% to 94%	A	Excellent
85% to 89%	A-	
80% to 84%	B+	
76% to 79%	B	Good
72% to 75%	B-	
68% to 71%	C+	
64% to 67%	C	Satisfactory
60% to 63%	C-	
55% to 59%	D+	
50% to 54%	D	Minimal Pass
0% to 49%	F	Failure

Other Notes:

The last day to enter a course without permission and /or voluntary withdrawal from a course without financial penalty is September 15th, 2006.

The last day to voluntarily withdraw from a course or change to audit without academic penalty is November 15th, 2006.

Course withdrawal forms are available from the Registrar. Students who do not follow the proper withdrawal procedures will be recorded as having failed the course.

Students are reminded that examinations will be actively invigilated. Students may only bring to an examination items stipulated by the instructor to be required for the completion of the exam. All non-essential items, including, but not limited to, hats, coats, gloves, knapsacks, purses, and electronic devices other than approved calculators, must be left in an area of the exam room designated by the instructor. **All cell phones and other unauthorized electrical devices MUST**

be turned off during examinations. Failure to comply may result in a failing grade on the examination.

Personal information, that is information about an individual that may be used to identify that individual, may be collected as a requirement as part of taking this class. Any information collected will only be used and disclosed for the purpose for which the collection was intended. For further information contact the Privacy Compliance Officer at privacy@auc-nuc.ca.

Although extensions to coursework in the semester are at the discretion of the instructor, students may not turn in coursework for evaluation after the last day of classes unless they have received permission for a "Course Extension." Alternative times for final examinations cannot be scheduled without prior approval. Requests for course extensions or alternative examination time must be submitted to the Registrar's Office by the appropriate deadline. Course extensions are only granted for serious issues that arise "due to circumstances beyond the student's control."

We are committed to fostering personal integrity and will not overlook breaches of integrity such as plagiarism and cheating. Plagiarism and cheating can result in a failing grade for an assignment, for the course, or immediate dismissal from the university college. Students are expected to be familiar with the policies in the current Academic Calendar and the Student Handbook that deal with plagiarism, cheating, and the penalties and procedures for dealing with these matters. All cases of academic dishonesty are reported to the Academic Dean.

Students are advised to retain this syllabus for their records.

Course Schedule:

Some adjustment to this schedule may be made by the instructor as the semester progresses. Students will be informed, in advance, of exact dates for each topic, assignment, quiz, and examination.

Please Note: Some information that is not included in the text will be covered in the lectures and may be included in the assignments, quizzes, and examinations. Note also that the instructor may not deal directly in classroom sessions with all of the text material that is assigned reading, but any text material that is assigned reading may be included in assignments, quizzes, and examinations.

<u>WEEK</u>	<u>TOPIC</u>	<u>TEXT REFERENCE</u>
1	What is Statistics? Descriptive vs. Inferential Variables Measurement Levels	Chapter 1 Pages 1 to 11

2	Describing Data Frequency Distributions Graphic Presentation	Chapter 2	Pages 18 to 37
3	Describing Data Population vs. Sample Central Tendency Dispersion Ungrouped vs. Grouped Data	Chapter 3	Pages 54 to 91
4 & 5	Probability Concepts Permutations & Combinations Contingency Tables & Venn Diagrams Tree Diagrams	Chapter 4	Pages 104 to 126
6	Discrete Probability Distributions Binomial Probability Poisson Probability	Chapter 5	Pages 137 to 151 Pages 156 to 158
7 & 8	Normal Probability Distribution Areas under the Normal Curve	Chapter 6	Pages 166 to 183
9	Sampling Methods and the Central Limit Theorem	Chapter 7	Pages 194 to 214
10 & 11	Estimation & Confidence Intervals Large Sample vs. Small Sample Proportion Sample Size	Chapter 8	Pages 222 to 237 Pages 240 to 243
11 & 12	One-Sample Test of Hypothesis Five-Step Procedure Two-Tail vs. One Tail p-Value Proportions	Chapter 9	Pages 250 to 274
13	Two-Sample Test of Hypothesis Independent vs. Dependent Proportions	Chapter 10	Pages 282 to 302
13 & 14	Analysis of Variance Chi-Square F Table ANOVA	Chapter 11	Pages 311 to 327
14 & 15	Linear Regression & Correlation Coefficients Predicting Formula	Chapter 12	Pages 337 to 365

Final Examination Period: December 15th to 20th, 2006.