

BUSINESS STATISTICS II
SCHOOL OF MATHEMATICS AND
STATISTICS CARLETON UNIVERSITY

INSTRUCTOR

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TEXTBOOK

Business Statistics and Analytics in Practice, Bowerman. 9th edition.

PREREQUISITES

STAT 2606

LECTURES

Time	Days	zoom	Date
10-11:30am	Mondays & Wednesdays	zoom	Sept. 9- Dec.9.

OFFICE HOURS

Tue. & Thu. 11am-12pm. on zoom

COMPUTER LABS

All labs take place on **Wed.** starting Sept. 18.

Section	Time
D1	11:35-12:25
D2	12:35 - 13:25
D3	13:35-14:25

COURSE WEBPAGE

cuLearn will be used as the course webpage. All the assignments, solutions and marks of the assignments/tests will be available on the cuLearn. It is the student's responsibility to make sure that his/her marks are recorded correctly by visiting cuLearn. The student needs to show his/her assignment/test if he or she requests a change of grade. The deadline to make any change on your term marks is Dec. 17. There must be a clear justified reason to make such a change.

EVALUATION

Assignments	20%
Term Test	25%
Final Exam	55%

Students who fail to achieve a term mark of at least 50% and a final exam mark of at least 50% will automatically receive a letter grade of FND in the course.

ASSIGNMENTS

There will be 4 assignments, each counting equally toward the term mark. No late assignments will be accepted.

TEST

There will be a two-hour midterm test on **Fri. November 13, 6-8pm.**

Important Note: if you miss the test or an assignment and you provide me with a legitimate document such as a Dr. note, its grade will be added to the final. There will be **no early or makeup test. No late assignment will be accepted.**

FINAL EXAM

There will be a three-hour Final exam scheduled by the university during the examination period (**December**). Students who wish to see their exam paper after it has been graded must contact me within 3 weeks of the exam.

NOTE

- Only basic scientific calculators will be allowed for tests and the final exam.
- According to Carleton University policy under the Freedom of Information of Privacy Act (FIPPA), please use your Carleton email for all course related emails.

TUTORIAL CENTER There is a mathematics help centre located at 1160 HP where Teaching Assistants are available to help you with math/statistics-related questions. For more details see the following webpage: <http://www.carleton.ca/math/math-tutorial-centre/>

STUDENTS WITH DISABILITIES

Students with disabilities requiring academic accommodation must register with the Paul Menton Centre for Students with Disabilities (PMC) for a formal evaluation of disability-related needs. Documented disabilities include but are not limited to mobility/physical impairments, specific learning disabilities, psychiatric/psychological disabilities, sensory disabilities, Attention Deficit Hyperactivity Disorder (ADHD), and chronic medical conditions. Registered PMC students are required to contact the PMC every term to have a Letter of Accommodation sent to the instructor by their coordinator. In addition, students are expected to confirm their need for accommodation with the instructor no later than two weeks before the first assignment is due, or two weeks before the first test. If you require accommodations only for the final examination in this course, you must request accommodations by the last official day to withdraw from classes in each term. For more details see the following webpage: <http://www.carleton.ca/pmc/students/accommodations/>

STUDENTS REQUIRING ACADEMIC ACCOMMODATION

Students requiring academic accommodation due to pregnancy or religious obligations must contact me during the first two weeks of class, or as soon as possible after the need for accommodation is known to exist. For more details see the Student Guide at the following webpage: <http://www.carleton.ca/equity/accommodation/academic/students/>

Plagiarism: Carleton University demands academic integrity from all its members. The Academic Integrity Policy (PDF) governs the academic behaviour of students. Academic Integrity is defined as: "A commitment even in the face of adversity to five fundamental values: honesty, trust, fairness, respect, and responsibility." – Centre for Academic Integrity (1999). For more on academic integrity go to <https://carleton.ca/registrar/academic-integrity/>

Stat 2607 D Course Outline
(Fall 2020)

Tentative course timetable (Subject to change depending on the progress of the course)

Week	Section	Details
Sep. 7 and 14	11.4-11.5, 12.1, 12.2	F test comparing two population variances, basic concepts of experimental design, One-way ANOVA
Sep. 21	12.3-12.4	Randomized block design, two-way ANOVA
Sep. 28	13.1-13.2	Chi-square tests, goodness of fit test, test for independence.
Oct. 5	14.1-14.2	Bivariate data, simple linear regression, correlation coefficient
Oct. 12	14.3-14.4	Model assumptions, least square estimates (LSE), point estimation and prediction,
Oct. 19	14.4-14.5, 14.7	Testing the Significance of the Independent Variable, Confidence and Prediction Intervals, Residual analysis
Oct. 26	N/A	Fall Break, no class
Nov. 2	15.1, 15.2	Multiple regression model, R^2 and adjusted R^2
Nov. 9	15.3-15.6	Model assumptions,, overall F test, Testing the Significance of an Independent Variable, Confidence and Prediction Intervals
Nov. 16	15.7	The Sales Representative Case: Evaluating employee performance
Nov. 23	17.1-17.3	Time series analysis, forecasting, decomposition methods
Nov. 30	17.4-17.6	Exponential smoothing methods, ARMA models
Dec. 7	14.7	Correlated residuals and Residual analysis