

COURSE SYLLABUS



COURSE TITLE: BUS 230 – Elementary Statistics

CLASS SECTION: 001

TERM: Winter 2022

COURSE CREDITS: 3

DELIVERY METHOD(S): In person

Camosun College campuses are located on the traditional territories of the Ləkʷəŋən and W̱SÁNEĆ peoples. We acknowledge their welcome and graciousness to the students who seek knowledge here.

Learn more about Camosun's [Territorial Acknowledgement](#).

For COVID-19 information please visit <https://camosun.ca/about/covid-19-updates>

Camosun College requires mandatory attendance for the first class meeting of each course. If you do not attend, and do not provide your instructor with a reasonable explanation in advance, you will be removed from the course and the space offered to the next waitlisted student.

INSTRUCTOR DETAILS

NAME: Afshin Amiraslany

EMAIL: amiraslanya@camosun.bc.ca

OFFICE: CBA 225B

HOURS: Virtual by appointment (collaborate link is on D2L)

As your course instructor, I endeavour to provide an inclusive learning environment. However, if you experience barriers to learning in this course, do not hesitate to discuss them with me. Camosun College is committed to identifying and removing institutional and social barriers that prevent access and impede success.

CALENDAR DESCRIPTION

Students will learn statistical methods for applications in business. They will study how to describe and analyze data, analyze decisions made with uncertainty, interpret descriptive statistics for one and two variables, and make predictions based on statistical data.

PREREQUISITE(S): One of: C in Pre-calculus 11, C in Foundations of Math 11, C in MATH 077, C in MATH 137, C+ in Math 072, C+ in MATH 075, C+ in MATH 135

COURSE LEARNING OUTCOMES / OBJECTIVES

Upon successful completion of this course, students will be able to:

1. Identify and utilize statistical information available in the databases, media, and business environments to guide decision making.
2. Analyze quantitative data to interpret their use in business applications.
3. Calculate and interpret descriptive statistics for one and two variable problems.
4. Apply the common rules of probability to discrete and continuous distributions.
5. Construct and interpret a confidence interval estimate.
6. Use the central limit theorem to determine possible sample sizes for various business problems.

7. Carry out an appropriate hypothesis test in a one and two sample hypothesis test.
8. Describe how linear regression models forecast business activity.

REQUIRED MATERIALS & RECOMMENDED PREPARATION / INFORMATION

Required Text

Lind, Marchal, and Wathen. (2018), Elementary Statistics: Quantitative Methods Bus 230/231, Custom Publication for Camosun College. Canada: McGraw-Hill Education.

Other: Calculator is required for this course. Graphing, programmable and cell phone calculators will not be permitted. **A Texas Instruments BA II+ is the preferred calculator for this course.**

COURSE SCHEDULE, TOPICS, AND ASSOCIATED PREPARATION / ACTIVITY / EVALUATION

The following schedule and course components are subject to change with reasonable advance notice, as deemed appropriate by the instructor.

WEEK	DATE RANGE	TOPIC	ASSIGNED READINGS	QUIZZES
1	Jan 10 to Jan 14	Class welcome Introduction to Statistics	Chapter 1	Chapter 1 Quiz
2	Jan 17 to Jan 21	Frequency Distributions and Graphs Descriptive Statistics (location)	Chapter 2 Chapter 3	Chapter 2 Quiz
3	Jan 24 to Jan 28	Descriptive Statistics (Dispersion)	Chapter 3	Chapter 3 Quiz
4	Jan 31 to Feb 4	Introduction to Probability	Chapter 4	Chapter 4 Quiz
5	Feb 7 to Feb 11	Midterm Exam 1	1 – 4	
6	Feb 14 to Feb 18	Discrete Probability Distribution	Chapter 5	Chapter 5 Quiz
7	Feb 21 to Feb 25	Reading Break		
8	Feb 28 to Mar 4	Discrete Probability Distribution	Chapter 5	Chapter 5 Quiz
9	Mar 7 to Mar 11	Continuous Probability Distributions	Chapter 6	Chapter 6 Quiz
10	Mar 14 to Mar 18	Sampling and the Central Limit Theorem	Chapter 7	Chapter 7 Quiz
11	Mar 21 to Mar 25	Midterm Exam 2	5 – 7	

WEEK	DATE RANGE	TOPIC	ASSIGNED READINGS	QUIZZES
12	Mar 28 to Apr 1	Estimation and Confidence Intervals	Chapter 8	Chapter 8 Quiz
13	Apr 4 to Apr 8	One-sample hypothesis test	Chapter 9	Chapter 9 Quiz
14	Apr 11 to Apr 15	Two-Sample hypothesis test	Chapter 10	Chapter 10 Quiz
	Apr 19 to Apr 27	Exam period	Final Exam	

Students registered with the Centre for Accessible Learning (CAL) who complete quizzes, tests, and exams with academic accommodations have booking procedures and deadlines with CAL where advanced notice is required. Deadlines can be reviewed on the [CAL exams page](http://camosun.ca/services/accessible-learning/exams.html). <http://camosun.ca/services/accessible-learning/exams.html>

EVALUATION OF LEARNING

DESCRIPTION		WEIGHTING
Quizzes:	D2L	10 %
Exams:		
	Midterm Exam 1	25 %
	Midterm Exam 2	25 %
	Final Exam	40 %
TOTAL		100%

If you have a concern about a grade you have received for an evaluation, please come and see me as soon as possible. Refer to the [Grade Review and Appeals](http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.14.pdf) policy for more information. <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.14.pdf>

COURSE GUIDELINES & EXPECTATIONS

Quizzes: There will be 10 quizzes during the term. These will be done online using D2L. You have three attempts and unlimited time for each quiz and only your best score will be used for your grade. Your lowest two quiz scores will be dropped and the remaining quizzes will count equally toward your final grade. This allows you to miss a quiz when sick and still not impact your final grade.

Please note that it is your responsibility to ensure that your computer is properly set up to work with D2L. No allowance will be made for quizzes that could not be completed due to computer issues.

Exams: The exams consist of a combination of short-answer and long-answer questions. The midterms are not cumulative; however, the final exam is. Students are allowed one hand-written 8½ x 11 sheet (**one sided**) on which to place any information they feel will help them to write the exam. Typically, this would be formulae and examples from class. The sheet must be hand written and you may be required to hand it in with your exam.

Cell phones, PDAs or similar devices are not permitted during exams. Students found with these devices will receive a score of zero on the exam. The final exam will be scheduled during the final exam period. The final exam is cumulative.

Assignment formatting. The School of Business uses APA style for formatting assignments and citing references. Proper citations and formatting using APA style will be required. See Camosun College (2018) Library Citation Guides retrieved from: <http://camosun.ca.libguides.com/apa7>

- Where required by your instructor, submit all assignments into the D2L assignments by your last name.
- In text citations for quotes, paraphrasing, and references must be consistent with APA standards.
- Grammar, spelling, style and APA formatting, citations and referencing will be assessed in your mark.
- All submitted work must be properly referenced to sources where required by your instructor.
- Unless otherwise specified, you are to submit your own work, any work collaborated (unless permitted by the course) will be considered in violation of the college's Student Conduct Policy. See Camosun College (2003) Student Conduct Policy from: <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.5.pdf> .

Deadlines and exams. You must submit your assignments on the due date or as announced. A grade of zero will be assigned to late submissions. There are no additional assignments or make-up exams of any kind if you performed poorly on an assignment, midterm or final exam.

- a) **EXAM DATES WILL NOT BE RESCHEDULED.** Non-attendance on scheduled exam dates results in a zero grade. Exceptions will be made only for medical reasons or extenuating circumstances that must be submitted and then accepted by the instructor. Please advise your instructor promptly.
- b) Students registered through the [Centre for Accessible Learning \(CAL\)](#) should discuss timelines with their instructors at the beginning of each semester.
- c) Medical notes must be dated, signed, and be written on letterhead or prescription paper imprinted with the physician's name and address. Notes are accepted from Physician (GP or medical specialist), Nurse Practitioner, Psychiatrist, Psychologist, Counsellor and Aboriginal Elder. Electronic notes will not be accepted. Medical documentation must be received as soon as reasonably possible.

SCHOOL OR DEPARTMENTAL INFORMATION

This course is offered through the School of Business and is intended for students in the Associate Arts (ECON) or University Transfer (BUS) programs. Both programs offer significant flexibility in course selection. If you are

considering a transfer to university, please reach out to your academic advisor, or our **Program Leader Keith Yacucha** yacuchak@camosun.ca for information about our programs and how to make effective course choices that will support your future.

STUDENT RESPONSIBILITY

Enrolment at Camosun assumes that the student will become a responsible member of the College community. As such, each student will display a positive work ethic, assist in the preservation of College property, and assume responsibility for their education by researching academic requirements and policies; demonstrating courtesy and respect toward others; and respecting expectations concerning attendance, assignments, deadlines, and appointments.

SUPPORTS AND SERVICES FOR STUDENTS

Camosun College offers a number of services to help you succeed in and out of the classroom. For a detailed overview of the supports and services visit <http://camosun.ca/students/>.

Support Service	Website
Academic Advising	http://camosun.ca/advising
Accessible Learning	http://camosun.ca/accessible-learning
Counselling	http://camosun.ca/counselling
Career Services	http://camosun.ca/coop
Financial Aid and Awards	http://camosun.ca/financialaid
Help Centres (Math/English/Science)	http://camosun.ca/help-centres
Indigenous Student Support	http://camosun.ca/indigenous
International Student Support	http://camosun.ca/international/
Learning Skills	http://camosun.ca/learningskills
Library	http://camosun.ca/services/library/
Office of Student Support	http://camosun.ca/oss
Ombudsperson	http://camosun.ca/ombuds
Registration	http://camosun.ca/registration
Technology Support	http://camosun.ca/its
Writing Centre	http://camosun.ca/writing-centre

If you have a mental health concern, please contact Counselling to arrange an appointment as soon as possible. Counselling sessions are available at both campuses during business hours. If you need urgent support after-hours, please contact the Vancouver Island Crisis Line at 1-888-494-3888 or call 911.

COLLEGE-WIDE POLICIES, PROCEDURES, REQUIREMENTS, AND STANDARDS

Academic Accommodations for Students with Disabilities

The College is committed to providing appropriate and reasonable academic accommodations to students with disabilities (i.e. physical, depression, learning, etc). If you have a disability, the [Centre for Accessible Learning](#) (CAL) can help you document your needs, and where disability-related barriers to access in your courses exist, create an accommodation plan. By making a plan through CAL, you can ensure you have the appropriate academic accommodations you need without disclosing your diagnosis or condition to course instructors. Please visit the CAL website for contacts and to learn how to get started:

<http://camosun.ca/services/accessible-learning/>

Academic Integrity

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.13.pdf> for policy regarding academic expectations and details for addressing and resolving matters of academic misconduct.

Academic Progress

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.1.pdf> for further details on how Camosun College monitors students' academic progress and what steps can be taken if a student is at risk of not meeting the College's academic progress standards.

Course Withdrawals Policy

Please visit <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.2.pdf> for further details about course withdrawals. For deadline for fees, course drop dates, and tuition refund, please visit <http://camosun.ca/learn/fees/#deadlines>.

Grading Policy

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.5.pdf> for further details about grading.

Grade Review and Appeals

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.14.pdf> for policy relating to requests for review and appeal of grades.

Mandatory Attendance for First Class Meeting of Each Course

Camosun College requires mandatory attendance for the first class meeting of each course. If you do not attend, and do not provide your instructor with a reasonable reason in advance, you will be removed from the course and the space offered to the next waitlisted student. For more information, please see the "Attendance" section under "Registration Policies and Procedures"

(<http://camosun.ca/learn/calendar/current/procedures.html>) and the Grading Policy at <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.5.pdf>.

Medical / Compassionate Withdrawals

Students who are incapacitated and unable to complete or succeed in their studies by virtue of serious and demonstrated exceptional circumstances may be eligible for a medical/compassionate withdrawal. Please visit <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.8.pdf> to learn more about the process involved in a medical/compassionate withdrawal.

Sexual Violence and Misconduct

Camosun is committed to creating a campus culture of safety, respect, and consent. Camosun's Office of Student Support is responsible for offering support to students impacted by sexual violence. Regardless of when or where the sexual violence or misconduct occurred, students can access support at Camosun. The Office of Student Support will make sure students have a safe and private place to talk and will help them understand what supports are available and their options for next steps. The Office of Student Support respects a student's right to choose what is right for them. For more information see Camosun's Sexualized Violence and Misconduct Policy: <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.9.pdf> and camosun.ca/sexual-violence. To contact the Office of Student Support: oss@camosun.ca or by phone: 250-370-3046 or 250-3703841

Student Misconduct (Non-Academic)

Camosun College is committed to building the academic competency of all students, seeks to empower students to become agents of their own learning, and promotes academic belonging for everyone. Camosun also expects that all students to conduct themselves in a manner that contributes to a positive, supportive, and safe learning environment. Please review Camosun College's Student Misconduct Policy at <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.5.pdf> to understand the College's expectations of academic integrity and student behavioural conduct.

Changes to this Syllabus: Every effort has been made to ensure that information in this syllabus is accurate at the time of publication. The College reserves the right to change courses if it becomes necessary so that course content remains relevant. In such cases, the instructor will give the students clear and timely notice of the changes.